

CRITICAL PATH METHOD SCHEDULE

The Standard Specifications are revised as follows:
SECTION 108, AFTER LINE 171, INSERT AS FOLLOWS:

108.04.1 Critical Path Method Schedule

(a) General Requirements

The Design-Build Contractor shall provide a project schedule using the critical path method, CPM, in place of the bar graph type schedule required in accordance with 108.04. In addition to the Submittals required herein, the CPM schedule shall be used to develop all schedules provided by the Design-Build Contractor at scheduling meetings held in accordance with 108.04.

The CPM schedule shall show the various activities of work in sufficient detail to demonstrate a reasonable and workable plan to complete the work in the specified contract time.

The Design-Build Contractor shall be responsible for ensuring that all work sequences are logical and that the schedule reflects a coordinated plan. The CPM schedule shall indicate the order and interdependence of activities and the sequence for accomplishing the work.

The CPM schedule shall include sufficient detail to allow IFA to readily identify the work and evaluate the progress of each activity. The CPM schedule shall include activities for all work to be performed by the Design-Build Contractor and Subcontractors. The schedule shall also include activities specific to the project to be performed by IFA, other units of government, regulatory agencies, Utilities and any other parties necessary to complete the Work. The schedule shall reflect the scope of work, construction phasing, maintenance of traffic requirements, environmental requirements, utility and railroad coordination, coordination with other contractors, and any other work included in the contract. The schedule shall include activities for working and shop drawing preparation, Design-Build Contractor Submittals, Submittal review time by IFA, material procurement and fabrication, and the delivery of materials, plant, and equipment and other similar activities.

Failure by the Design-Build Contractor to include any element of Work or to accurately reflect the relationships among the work activities required for performance of the contract does not excuse the Design-Build Contractor from completing all required work within the specified time.

(b) Definitions

The following definitions shall be applied to the terms used in this specification and shall not be taken to modify in any way the definitions in 101.02 through 101.74.

Activity – *A discrete, identifiable task or operation that takes time, has a definable start and stop date, furthers the work's progress, and can be used to plan, schedule, and monitor a project.*

Activity Calendar – *A set of days assigned to a specific activity on which work for the activity may be scheduled.*

Activity Calendar Day – *A day on which work is scheduled to be performed on a specific activity.*

Activity Identification (ID) Number – *A unique, alphanumeric identification code assigned to a specific activity.*

Activity Network Diagram – A graphic representation of a CPM schedule, including a timescale, which shows the relationships among activities.

Bar Chart – A graphic representation of a schedule without relationship lines displayed. A timescale appears along the horizontal axis.

Calendar ID – An alphanumeric identification code assigned to an activity calendar.

Closure Period – The original or revised maximum duration specified in the contract for the closure of a road, ramp, bridge, or other facility.

Constraint – A restriction imposed on the start or finish dates of an activity that modifies or overrides the activity's logic relationships.

Controlling Activity – The first incomplete activity on the Critical Path.

Critical Activity – Any activity on the critical path.

Critical Path – Has the meaning set forth in Exhibit 1 of the PPA.

Data Date – The first day in a Project Baseline Schedule or the first day for performance of the remaining work in a Project Status Schedule. For a Final Schedule, it is the date that the last activity was completed.

Delayed Start Date – The original or revised date specified in the contract prior to which work on the project is prohibited.

Final Schedule – The last CPM schedule containing actual start and finish dates for every activity.

Free Float – The amount of time an activity can be delayed and not delay a successor.

Milestone – An activity with no duration that is typically used to represent the beginning or end of the project or an interim phase.

Project Status Schedule – A CPM schedule produced by incorporating the project's actual progress into the last accepted Submittal.

Open End – The condition that exists when an activity has either no predecessor or no successor, or when an activity's only predecessor relationship is a finish-to-finish or only successor relationship is a start-to-start.

Original Duration – The estimated time, expressed in activity calendar days, required to perform an activity.

Predecessor – An activity that is defined by schedule logic to precede another activity. A predecessor may control the start or finish date of its successor.

Project Baseline Schedule – An accepted CPM schedule showing the original plan to complete the entire project.

Relationship – The interdependence among activities. Relationships link an activity to predecessors and successors.

Remaining Duration – The estimated time, expressed in activity calendar days, required to complete an activity.

Schedule – Activities organized by relationships to depict the plan for execution of a project.

Scheduled Completion Date – The completion date forecast by the CPM schedule. The schedule may also forecast intermediate completion dates or durations for milestones, phases, or other portions of the project.

Successor – An activity that is defined by schedule logic to succeed another activity. The start or finish date of a successor may be controlled by its predecessor.

Total Float – The amount of time an activity can be delayed and not delay the Substantial Completion Date.

(c) Required Schedule Submissions

1. Project Baseline Schedule

The Project Baseline Schedule Submittal shall consist of a schedule in accordance with 108.04.1(d) and a narrative report in accordance with 108.04.1(e). The Project Baseline Schedule data date shall be the date of the notice to proceed and the schedule shall not include any actual start or actual finish dates for any activity. The Project Baseline Schedule Submittal shall be made in accordance with Section 1.4 of the Technical Provisions.

2. Project Status Schedule

The Project Status Schedule Submittal shall consist of a CPM schedule in accordance with 108.04.1(d) and a narrative report in accordance with 108.04.1(e). The first monthly Project Status Schedule shall be submitted by the 7th of the month following acceptance of the Project Baseline Schedule. Each succeeding Project Status Schedule shall be submitted by the 7th of each succeeding month. The Project Status Schedule data date shall be the last date of the month prior to Submittal. The Project Status Schedule shall not include any actual start or actual finish dates later than the data date for any activity. If the 7th day of an individual month is a Saturday, Sunday, or a Holiday on which work has been suspended, the monthly Project Status Schedule shall be submitted by the first business day following the 7th.

If the Design-Build Contractor fails to submit a Project Status Schedule by the required date, IFA will withhold progress estimates until the Project Status Schedule Submittal is made.

3. Final Schedule

The Final Schedule shall consist of a CPM schedule in accordance with 108.04.1(d). The Final Schedule shall be submitted no later than 30 calendar days after Final Acceptance. The Final Schedule shall depict the actual start and finish dates for each activity. The data date of the Final Schedule shall be the date of Final Acceptance. If the Design-Build Contractor fails to submit the Final Schedule by the required date, IFA will withhold progress estimates until the Final Schedule is submitted.

4. Acceptance of Schedules

IFA will provide written notice within 14 calendar days of receipt of a Baseline, Project Status, or Final Schedule that the schedule is either accepted or rejected. If the notice indicates that a schedule is rejected, the contractual basis for rejection will be identified. If IFA does not respond in writing to the Submittal of a schedule within the allotted time, the schedule shall be considered to be accepted.

IFA's written notice of acceptance or rejection may include questions, comments, or request additional information. The next schedule submittal's narrative report shall address all questions, comments, or additional information requested by IFA.

Rejected Baseline Schedules shall be resubmitted until accepted by IFA.

A rejected Project Status Schedule which immediately follows an accepted Baseline or Project

Status Schedule will not require resubmittal. Project Status Schedules that are rejected for a second consecutive month shall be resubmitted within 14 days of the date of the rejection notification. Subsequent rejections will require additional Submittals until acceptance. If the Design-Build Contractor fails to submit a Project Status Schedule requiring resubmittal by the required date, IFA will withhold progress estimates until the Project Status Schedule is submitted.

Rejected Final Schedules shall be resubmitted until accepted by IFA. Resubmittal of a Final Schedule shall be made within 14 calendar days of receipt of rejection notification. If the Design-Build Contractor fails to resubmit a rejected Final Schedule by the required date, IFA will withhold progress estimates until the Final Schedule is submitted.

IFA's review of a submitted schedule will be for compliance with the specifications. Acceptance by IFA does not relieve the Design-Build Contractor of responsibility for the accuracy or feasibility of the schedule. Acceptance of a schedule does not constitute a modification of the contract or endorsement or validation of the Design-Build Contractor's logic, activity durations, or assumptions in creating the schedule. Acceptance of a schedule does not guarantee that the project can be performed or completed as scheduled. Omissions and errors in a schedule shall be corrected in the next schedule Submittal and will not entitle the Design-Build Contractor to a contract adjustment.

5. Float and Scheduled Completion

Total float belongs to the project and shall be a shared commodity between the Design-Build Contractor and IFA. Float is not for the exclusive use or benefit of either party. Either party has full use of float until it is depleted.

Float generated during the course of the project due to the efficiencies of either party shall be considered to be part of total float.

Float generated during the course of the project due to favorable weather within a calendar month, where the number of days of inclement weather is less than the normal inclement weather days for the month, shall be considered to be part of total float.

Negative float generated during the course of the project due to factors within the control of the Design-Build Contractor will not be a basis for requesting time extensions. Time extension requests shall be developed in accordance with 108.04.1(f).

A schedule may indicate a scheduled completion date in advance of the Substantial Completion Date or scheduled completion of work associated with a Completion Milestone or closure period prior to the corresponding contract date or period. However, IFA shall not be liable in any way for the Design-Build Contractor's failure to complete the project prior to the Substantial Completion Date or complete work associated with any intermediate contract date or period prior to the original or revised date or period. Any costs incurred by the Design-Build Contractor as a result of such a failure shall be the responsibility of the Design-Build Contractor. The Design-Build Contractor will not be entitled to claim or recover any such cost from IFA.

An accepted schedule that indicates a scheduled completion date in advance of the Substantial Completion Date will be considered to have total float equal to the time between the scheduled completion date and the Substantial Completion Date.

(d) CPM Schedule Technical Requirements

Prepare the CPM schedule using Primavera Project Management software.

Each CPM schedule Submittal shall include the following:

- 1. A letter of transmittal identifying the schedule Submittal and contents.*
- 2. A narrative report in accordance with 108.04.1(e). No narrative report is required for the Final Schedule.*
- 3. An electronic file of the schedule in Primavera .XER format that is completely compatible with and may be directly imported without any loss or modification of data or need for any conversion or other software. Any electronic schedule file submitted by the Design-Build Contractor that is not completely compatible with IFA's Primavera software will be rejected.*
- 4. A copy of the critical path Gantt chart, including lines representing relationships between activities, measuring 11" x 17" or larger. This item is not required for an Final Schedule.*

The schedule shall meet the following requirements:

- 1. The first activity on a schedule shall be a milestone for the Notice To Proceed (NTP). The last activity on a schedule shall be a milestone for the Substantial Completion Date and shall reflect the date of notice of presumptive completion of the entire contract in accordance with 105.15(b). The schedule shall not include activities related to the final inspection, performance of punchlist work, or removal of construction signs.*
- 2. All Completion Milestones shall be shown in the schedule.*
- 3. Project Baseline Schedules shall indicate that Completion Milestones and all closure periods meet contract requirements.*
- 4. Project Status Schedules shall indicate that Completion Milestones and all closure periods meet contract requirements unless the narrative report indicates that there is an unresolved delay situation which is beyond the control of the Design-Build Contractor.*
- 5. Codes for phase, location and responsibility shall be assigned for each activity. Additional activity codes may be used if approved by IFA.*
- 6. Activities associated with work performed on a closed facility during a closure period shall be assigned a distinct activity phase code to allow a comparison of the scheduled closure period to the contract closure period.*
- 7. Each activity shall have a unique description and activity identification number which shall not be modified or re-assigned after acceptance of the Project Baseline Schedule.*
- 8. Each activity description shall generally describe the work type and location and shall be associated with only one operation.*
- 9. Each construction related activity shall have an original duration not to exceed 20 activity calendar days unless approved by IFA. It is permissible for activities related to fabrication, utility relocation, permit acquisition, and other non-construction activities to have longer original durations.*
- 10. Activities for Submittal reviews by IFA shall allow reasonable durations, but in no case less than 14 calendar days unless otherwise specified or approved by IFA.*
- 11. Each activity, except the first activity, shall have at least one predecessor.*
- 12. Each activity, except the last activity, shall have at least one successor.*

13. *No start-to-finish activity relationships shall be used. Activity finish-to-start relationships shall include no lags. Finish-to-finish or start-to-start activity relationships may use lags that include fewer days than the original duration of the predecessor activity.*

14. *The use of lags with a negative value shall not be used for any activity relationship type.*

15. *All activities shall have their start and finish tied to the logic of the schedule.*

16. *Activities shall not be constrained unless noted herein or approved by IFA. The Completion Milestone dates shall be constrained using a finish on or before constraint. Delayed start dates shall be constrained using a start on or after constraint.*

17. *Each activity shall be assigned to an activity calendar. A schedule may utilize more than one activity calendar, but only one activity calendar shall be assigned to each activity. All activity calendars shall be project calendars as classified by Primavera.*

18. *Activity calendars associated with construction activities shall include a minimum number of non-work days for the months of April through November, inclusive, equal to the number of above normal inclement weather days shown in 101.02. However, the number of non-work days included in calendars associated with bridge, traffic, and road construction activities shall be equal to or greater than the tabulated value related to B, T, or R contracts respectively, regardless of the type of contract involved.*

19. *Activity calendars for non-work activities, including but not limited to Submittals, reviews, procurement, fabrication, cure times, and utility relocations performed by others shall not show any non-work days.*

20. *Seasonal weather conditions and Design-Build Contractor scheduled shut down periods shall be considered and included in the activity calendars for all work scheduled from December 1 through March 31.*

21. *Schedule calculations shall be performed using the following settings: retained logic; contiguous activity durations for individual activities; critical path based on longest path; and total float based on activity finish dates.*

22. *Cost- and resource-load the Schedule as the basis to administer the payments to the Design-Build Contractor and track production. Utilize cost accounts reflective of Schedule of Values and assign applicable cost-loaded activities to respective cost accounts. The costs assigned to Schedule activities roll up to equal the price for each item identified in the Schedule of Values. The total cost of all Schedule activities equals the Contract Price*

23. *Resource-load the Schedule to include a reasonable estimate of either a commodity or labor hour upon which value or production is based.*

24. *The cost assigned to individual Schedule activities may not artificially inflate, imbalance, or front-load the items. Substantiate an activity if INDOT questions the definition, costs, or production rate of it.*

25. *Provide two user-defined fields to identify Start Station and End Station for each construction activity.*

26. *All durations are to be in whole days and all Project Calendars shall have the same shift time. Operations that do not work standard shifts shall adjust the duration to reflect this in lieu of different shift times in the Project Calendars.*

(e) Narrative Reports

The Design-Build Contractor shall submit a narrative report with each baseline and status schedule Submittal to describe and elaborate on the Work identified in the schedule. Conflicting information between the narrative report and associated schedule will be cause for rejection of a

baseline or status schedule.

Information included in narrative reports will not be considered to meet the requirements for contractual notice of a changed condition in accordance with 105.16 or requests for additional contract time in accordance with 108.04.1(f). Separate correspondence meeting the applicable requirements shall be submitted by the Design-Build Contractor to serve as notice of a changed condition or a request for additional contract time.

For the Project Baseline Schedule Submittal, the narrative report shall include the following:

- 1. An explanation of the overall plan to complete the project, including where the Work will begin and how the Work will progress through the project.*
- 2. Statements comparing the scheduled completion date or duration to the Substantial Completion Date, Completion Milestones and all closure periods.*
- 3. An explanation of the planned Work schedule, including the planned number of workdays per week, planned number of shifts per day, whether night shifts are planned, number of hours planned per shift, holidays planned to be observed, extent of work planned for the winter months, and how the schedule calendars accommodate the required number of adverse weather days for each month. If multiple crews are planned, the above information shall be provided for each crew.*
- 4. Description of the Work to be completed each construction season and during each winter for multi-year projects.*
- 5. A detailed description of any unresolved actual or anticipated problems or issues. If a contractual notice of a changed condition or a claim in accordance with 105.16 has been submitted and IFA response is pending, the description shall indicate dates associated with each Design-Build Contractor Submittal.*
- 6. A description of any unresolved actual or anticipated delays, including identification of the type of delay, the cause of the delay, responsibility for the delay, identification of all delayed critical activities, the effect of the delay on other activities and project milestones and identification of actions required to mitigate the delay. If the Design-Build Contractor has submitted a request for additional contract time in accordance with 108.04.1(f) and IFA response is pending, the description shall indicate the date of the Design-Build Contractor Submittal.*
- 7. A detailed description of the critical path.*
- 8. An explanation of the use of any constraints, including the reason and purpose for each constraint.*
- 9. A statement describing the status of any required permits.*
- 10. A statement describing the reason for the use of each lag.*
- 11. A list of all proposed exceptions to this specification included in the schedule that require approval by IFA along with an explanation of why the exception is appropriate.*

For each Project Status Schedule Submittal, the narrative report shall include the following:

- 1. A statement comparing the scheduled completion date to the Substantial Completion Date and any change in the scheduled completion date from the previous accepted Submittal and an explanation of time gained or lost to each Completion Milestone and the Substantial Completion Date.*
- 2. An explanation if the scheduled completion date is projected to occur after the Substantial*

Completion Date.

3. *A statement comparing the scheduled completion of work associated with each closure period in the contract as well as any changes in the closure periods from the previous accepted Submittal.*

4. *An explanation if work associated with any contract milestone date or closure period is projected to occur after the dates or projected to require a longer duration than set out in the contract.*

5. *A list of activities that have been added or deleted from the schedule since the last accepted Submittal and an explanation for the addition or deletion.*

6. *A list of all changes in activity relationships, predecessors, or successors since the last accepted Submittal and an explanation for each change.*

7. *A list of activities with original durations that have been changed since the last accepted Submittal along with an explanation regarding how the change is planned to be accomplished.*

8. *A description of the work performed since the last accepted Submittal.*

9. *A description of and explanation for any changes between the work performed since the last accepted Submittal and the work planned at the time that Submittal was made.*

10. *A detailed description of any unresolved problems that are anticipated or that have been encountered. If a contractual notice of a changed condition or a claim in accordance with 105.16 has been submitted and IFA response is pending, the description shall indicate the date of the notice or claim Submittal.*

11. *A statement that identifies any unresolved actual and anticipated delays. The statement should include identification of the delayed activity, the party apparently responsible for the delay, the type of delay, the cause of the delay, the effect of the delay on other activities and project milestones and identification of actions required to mitigate the delay. If the Design-Build Contractor has submitted a request for additional contract time in accordance with 108.04.1(f) and IFA response is pending, the statement shall indicate the date of the Design-Build Contractor request.*

12. *A detailed description of the critical path.*

13. *A list of activities which have become critical since the last accepted Submittal.*

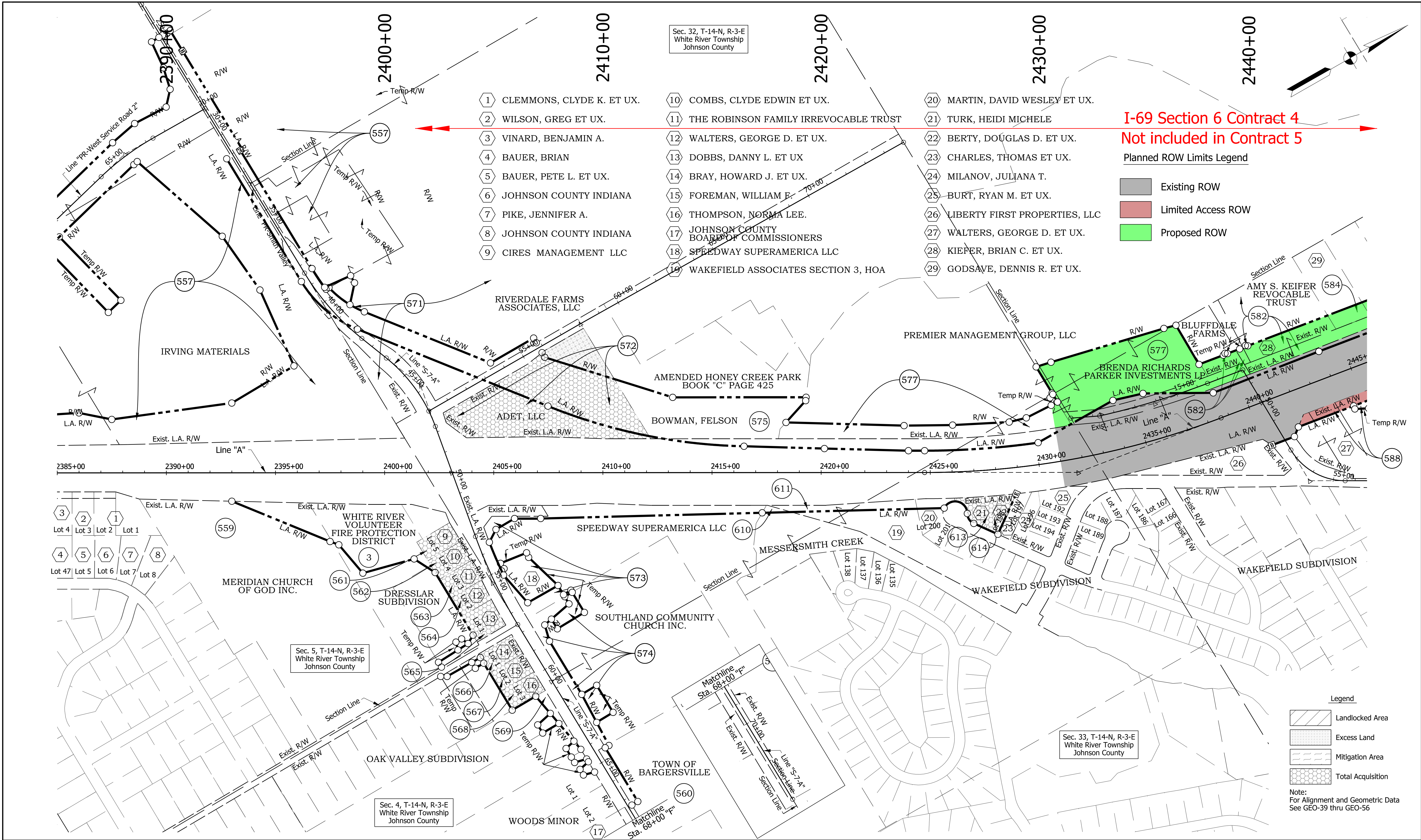
(f) Extension of Contract Time

If the Design-Build Contractor believes Work on the contract has been delayed for reasons beyond its control, a written request for extension of contract time may be submitted in accordance with 108.08. The Design-Build Contractor's request for extension of time shall be submitted in conjunction with the first Project Status Schedule Submittal that is made after the delay mitigation work is complete. A Project Status Schedule which accompanies a time extension request shall utilize a data date which is the date that the delay mitigation work is complete.

The determination of contract time extension will be based solely on IFA's comparison of the Project Status Schedule Submittal associated with the time extension request and the last accepted schedule prior to the beginning of the delay event.

Delays or suspensions of work due to the Design-Build Contractor's failure to comply with the specifications will not be cause for additional compensation or extension of contract time.

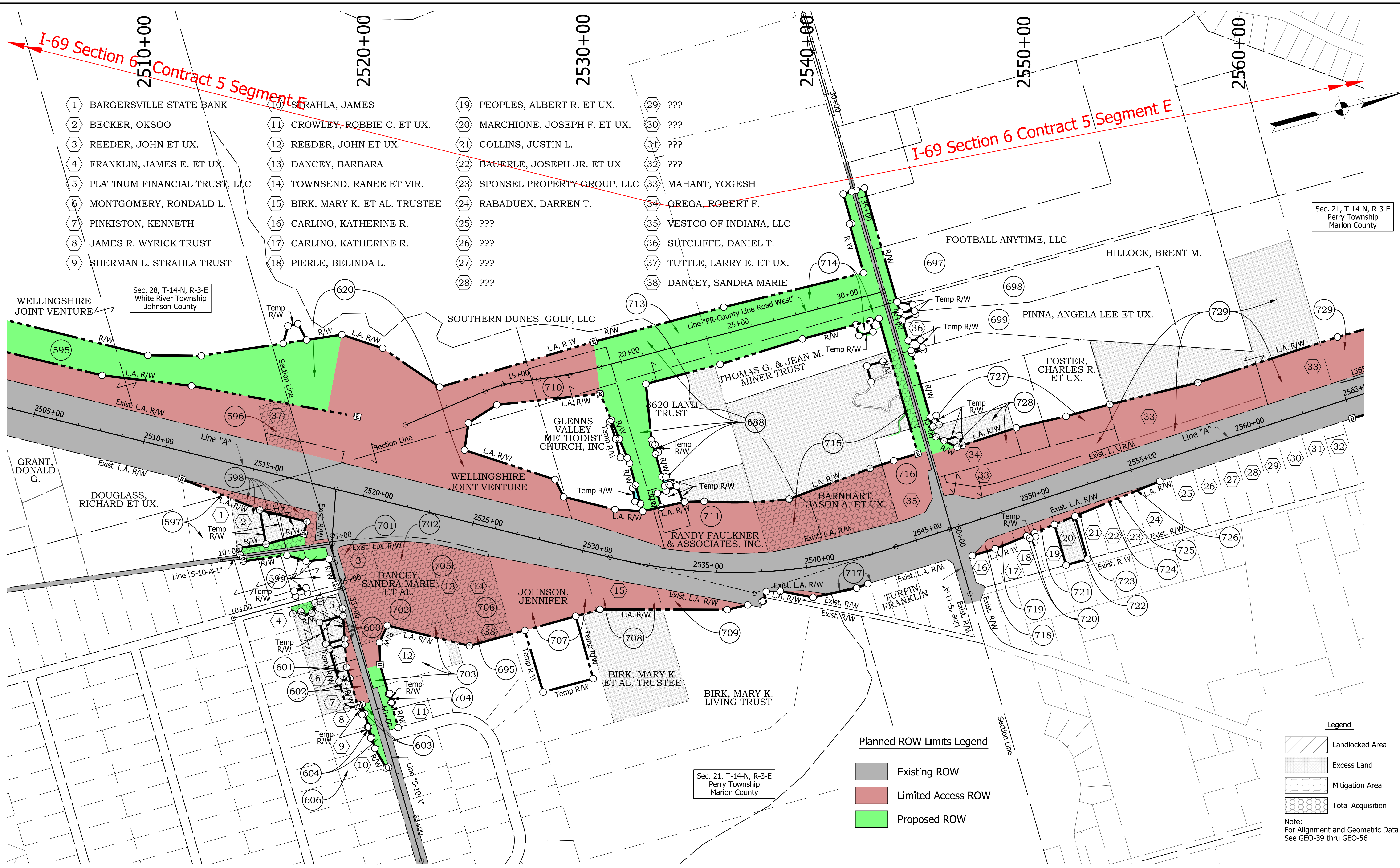
ATTACHMENT 1-2 Planned ROW Limits



RW PLAN
SEGMENT E

RW PLAN
SEGMENT E

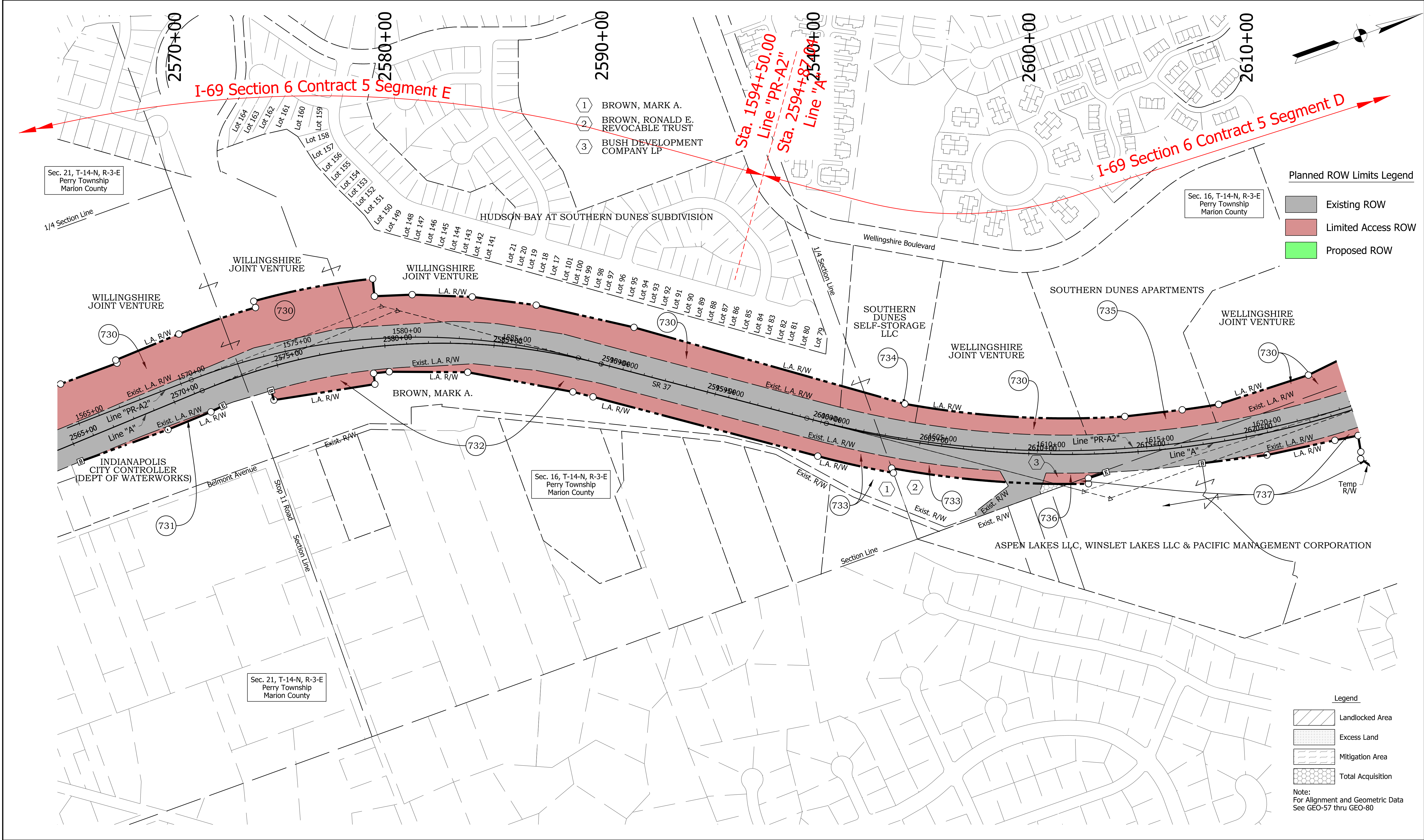
ATTACHMENT 1-2 Planned ROW Limits



RW PLAN
SEGMENT E

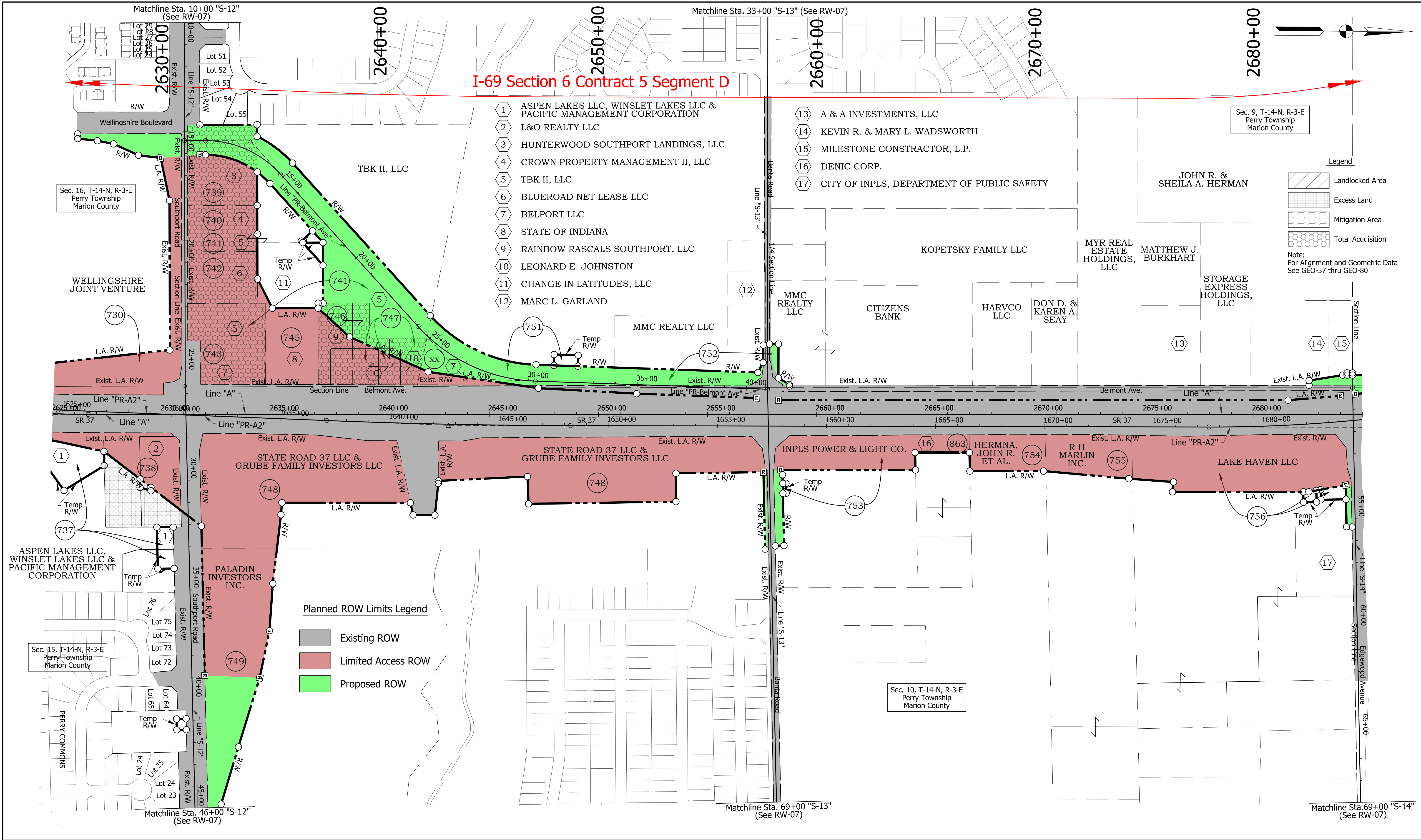
NShafter
9/6/2017 1:15:15 pm
model:Sheet6
file:c:\cadd\lb\pw\mshafter\p\mgreat_lakes\0226671\row plan exhibits\02.dgn

ATTACHMENT 1-2 Planned ROW Limits



RW PLAN
SEGMENT E & SEGMENT D

ATTACHMENT 1-2 Planned ROW Limits



RW PLAN
SEGMENT D

MShafter
2/27/2020 10:48:43 am
model:Sheet2
file:c:\cadd\l\p\mshafter\p\mgreat_lakes\0226671\rw plan exhibits.dgn

RW PLAN SEGMENT D

RW PLAN SEGMENT B



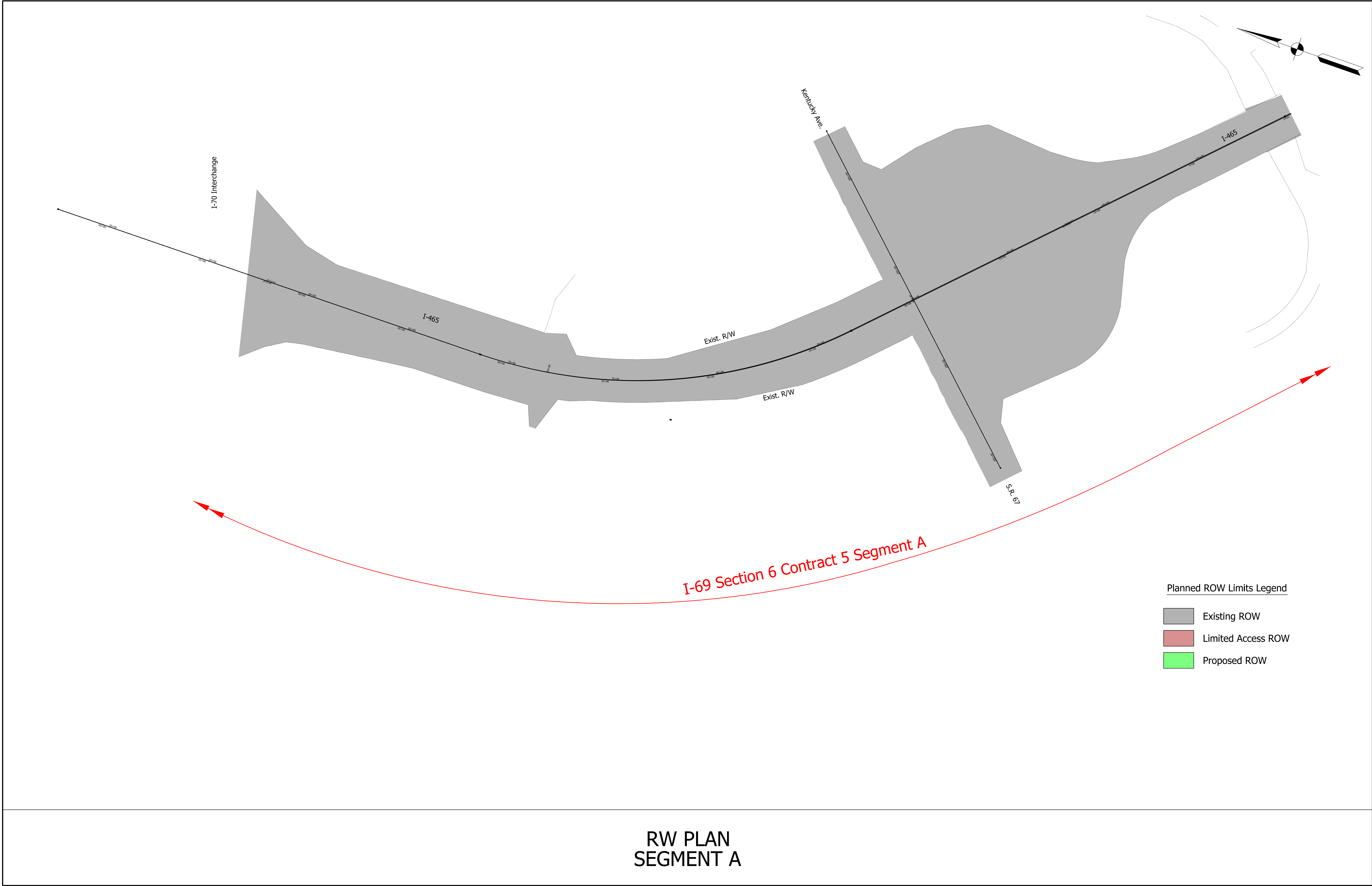
I-69 Section 6 Contract 5 Segment B

RW PLAN SEGMENT B

ATTACHMENT 1-2 Planned ROW Limits

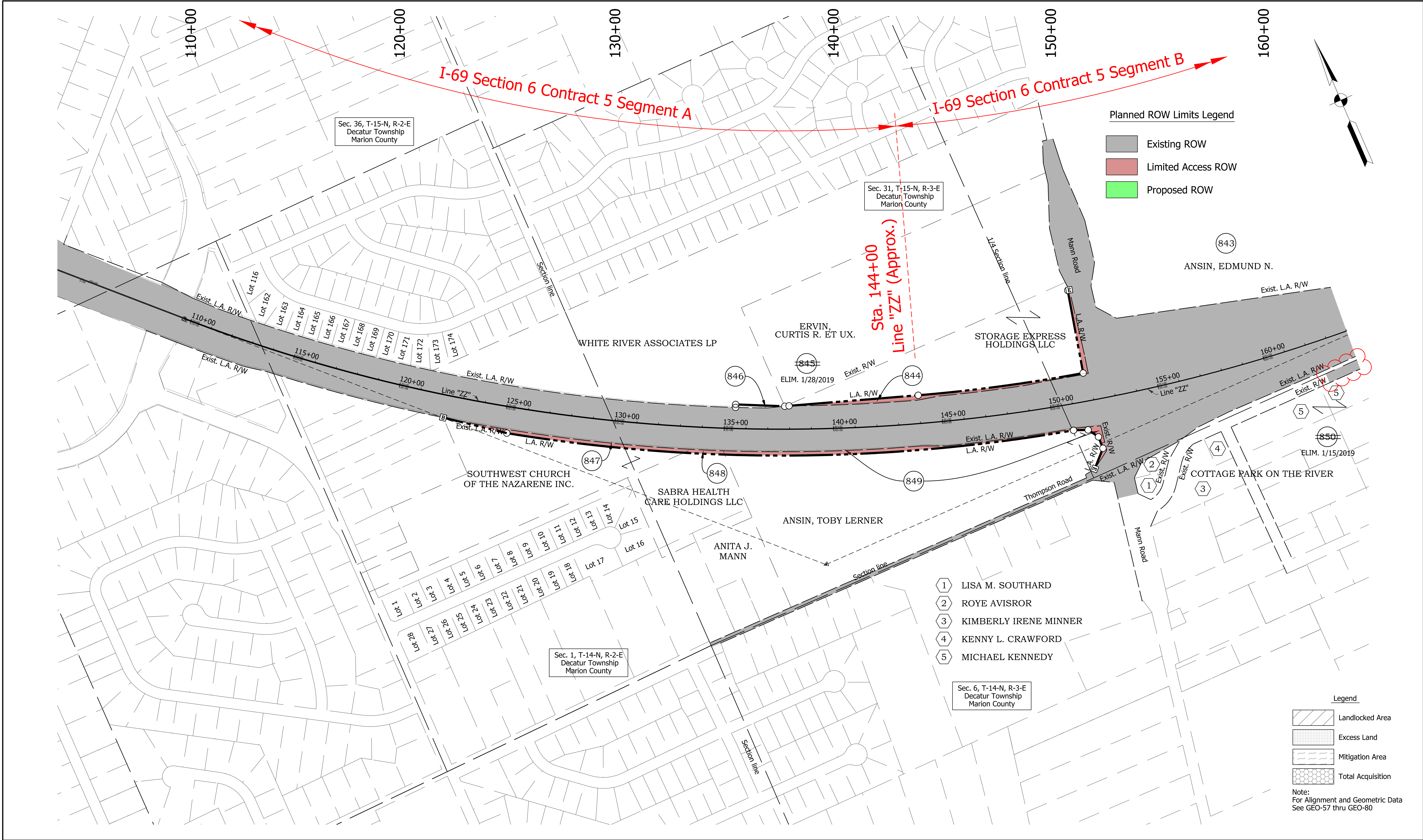


ATTACHMENT 1-2 Planned ROW Limits



MShafter
2/27/2020 10:48:51 am
model-Sheet12
file: c:\cadd\lpw\mshafter\pwwgreat_lakes\0226671\pw plan exhibits.dgn

REVISED 07-15-2020: CLARIFIED EXISTING R/W LIMITS
BASED ON LEGEND



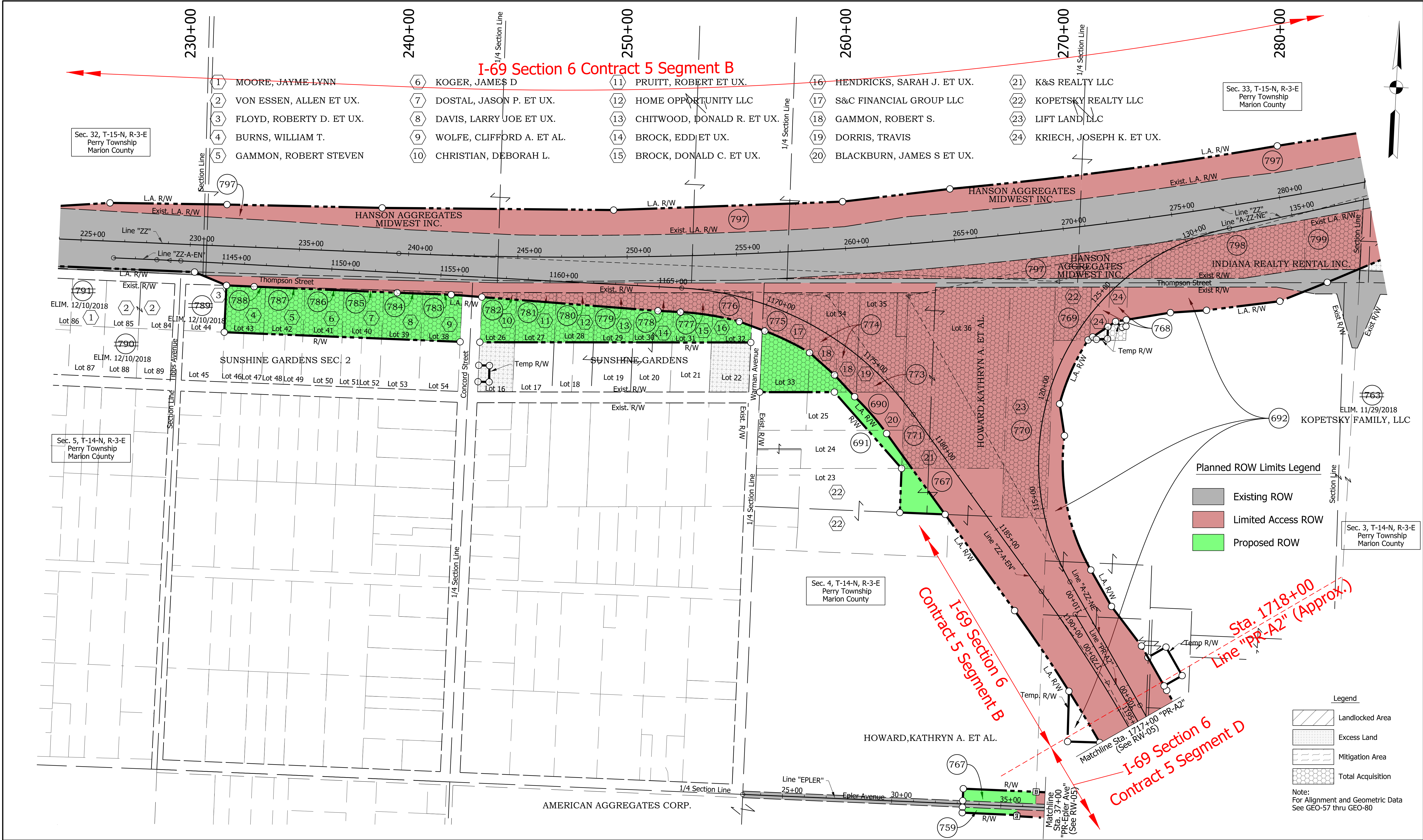
RW PLAN
SEGMENT A & SEGMENT B

rsr:regiel
6/5/2020 1:43:36 pm
model:Sheet6
file:c:\additb\pwr\rsr\regiel\pwr\great_lakes\0226671\rv plan exhibits.dgn

REVISED 07-15-2020: CLARIFIED EXISTING R/W LIMITS
BASED ON LEGEND



ATTACHMENT 1-2 Planned ROW Limits



RW PLAN
SEGMENT B

MSHAFFER
2/27/2020 10:48:55 am
model: Sheet8
file: c:\cadd\l\p\mshafter\p\g\great_lakes\0226671\row plan exhibits.dgn

I-69 Section 6 Contract 5 Segment B



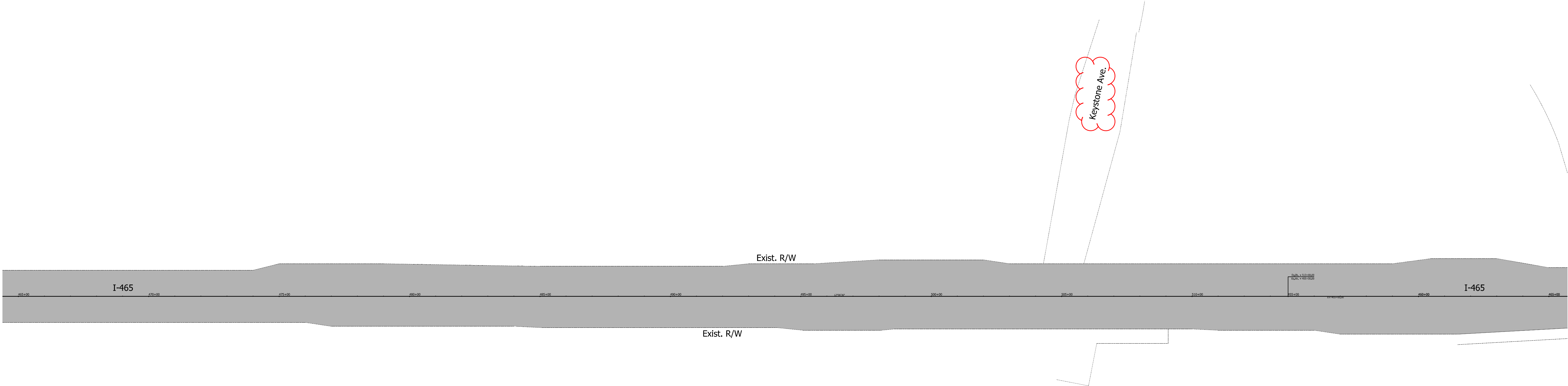
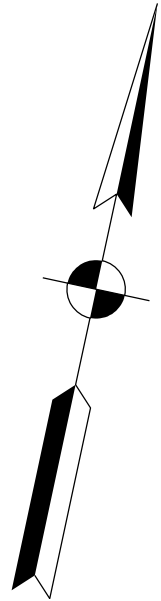
RW PLAN SEGMENT B

MShaffer
2/27/2020 10:48:59 am
model: Sheet10
file: c:\caddlib\pw\mshaffer\pwgreat_lakes\d0226671\pw_plan_exhibits.dgn

RW PLAN SEGMENT B & SEGMENT C

REVISED 07-15-2020: UPDATED TEXT

I-69 Section 6 Contract 5 Segment C



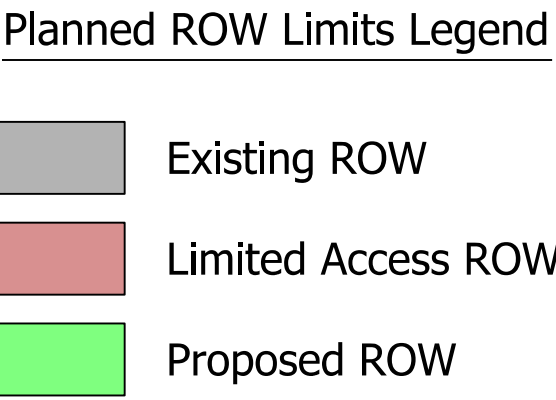
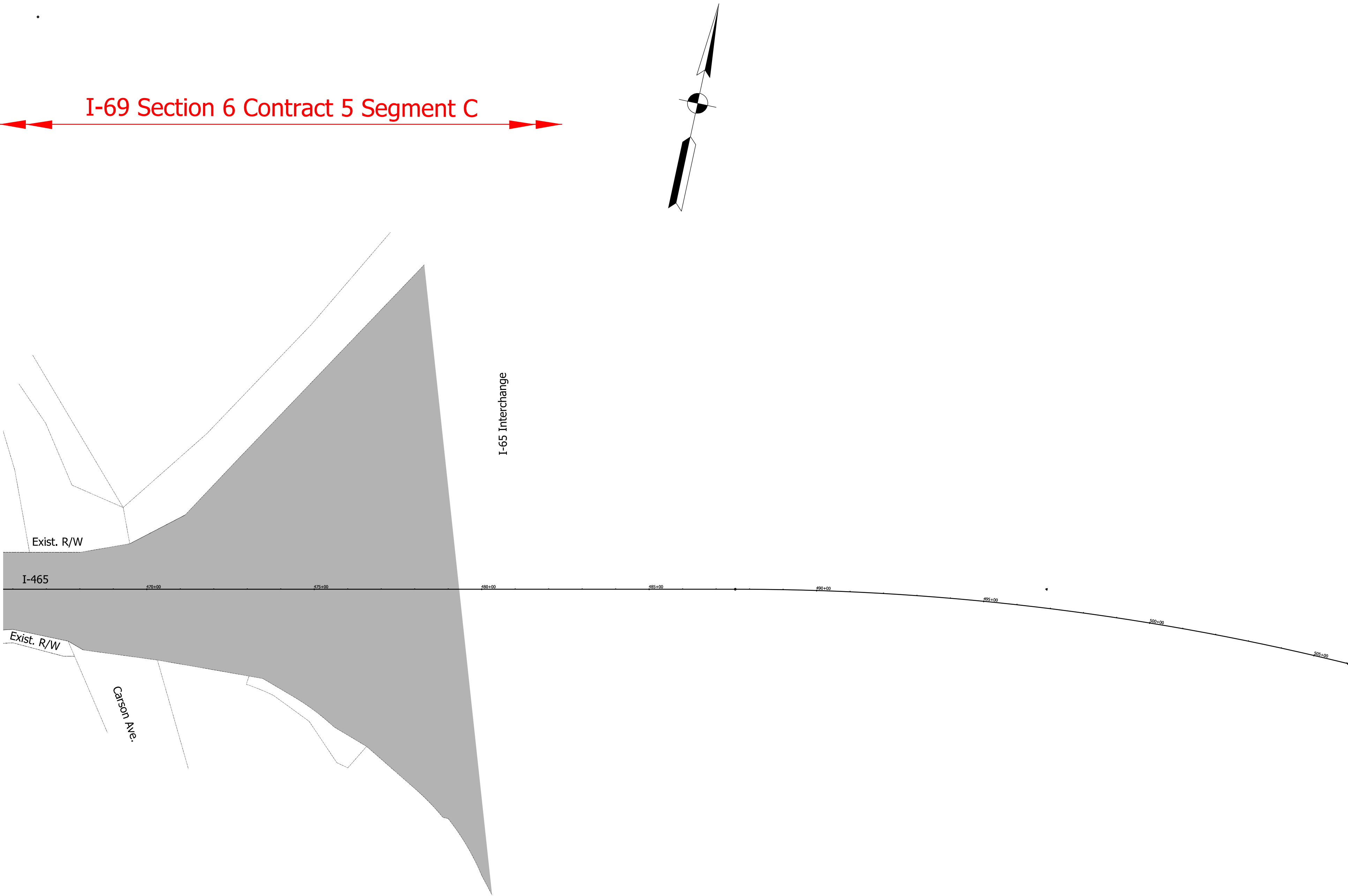
Planned ROW Limits Legend

- Existing ROW
- Limited Access ROW
- Proposed ROW

RW PLAN
SEGMENT C

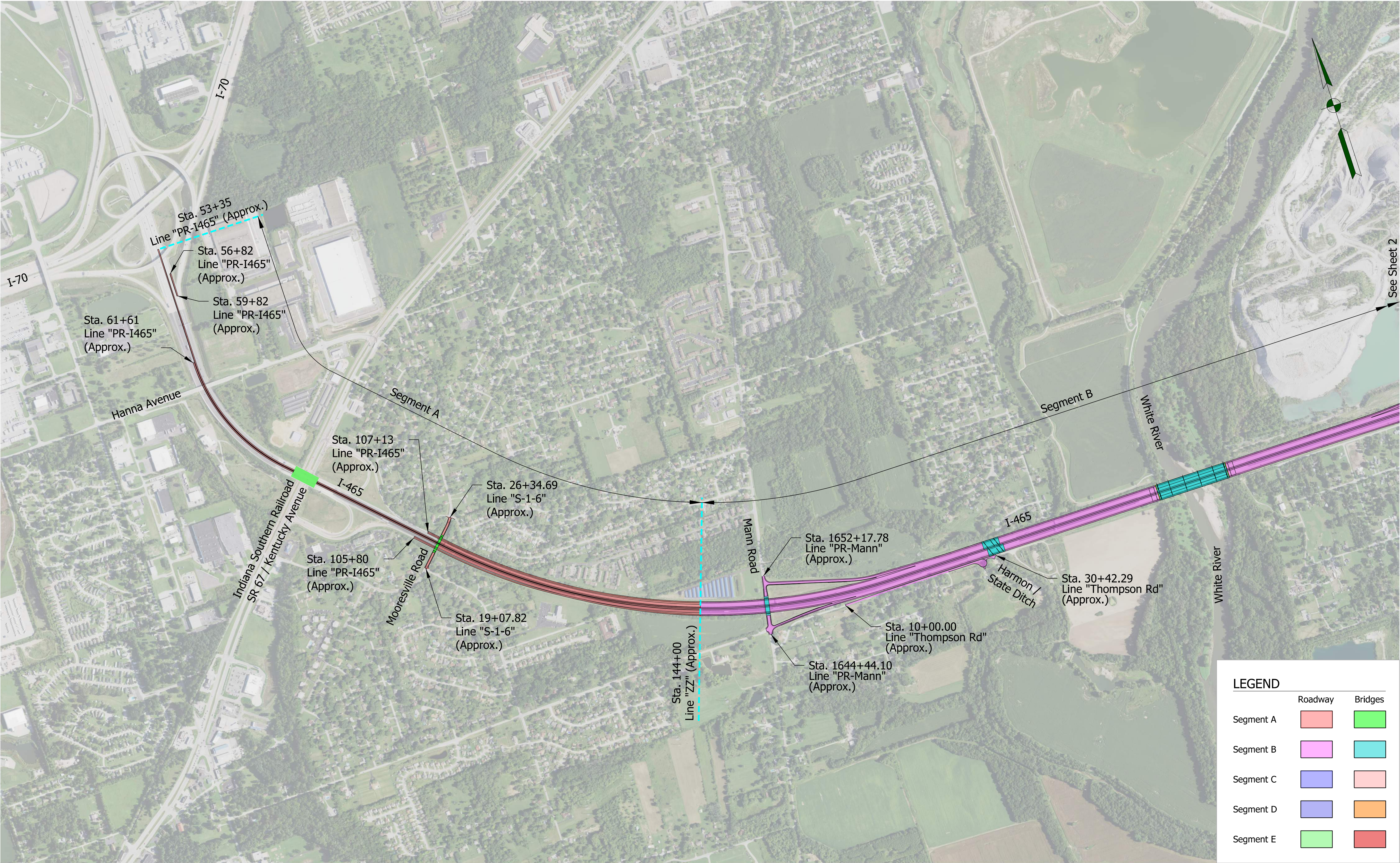
rsfriegel
6/5/2020 1:44:44 pm
model-Sheet13
file: c:\cadd\lb\pvi\rsfriegel\pvi\great_lakes\p0226671\rv plan exhibits.dgn

ATTACHMENT 1-2 Planned ROW Limits

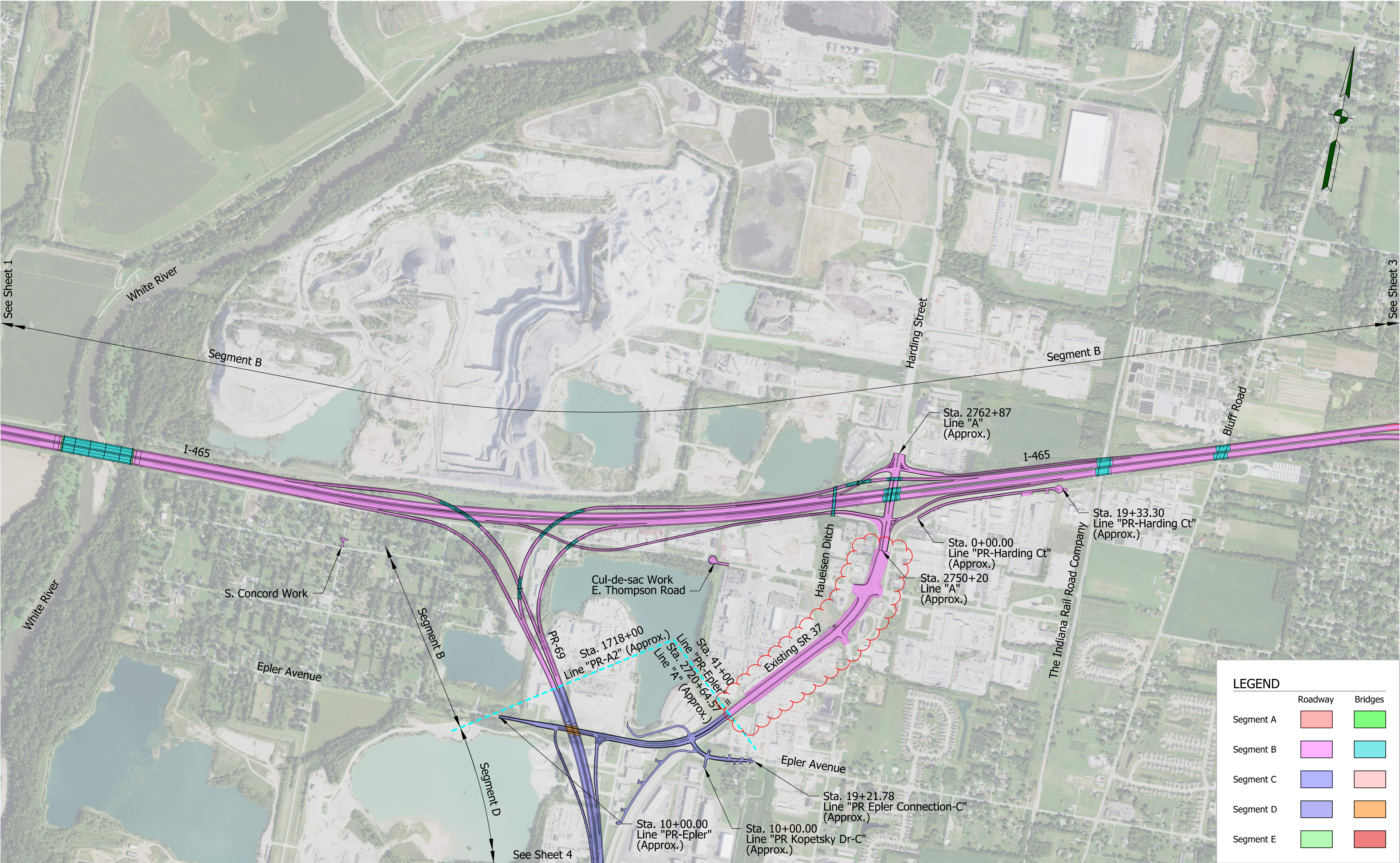


RW PLAN
SEGMENT C

ATTACHMENT 1-3 Project Segments Exhibit

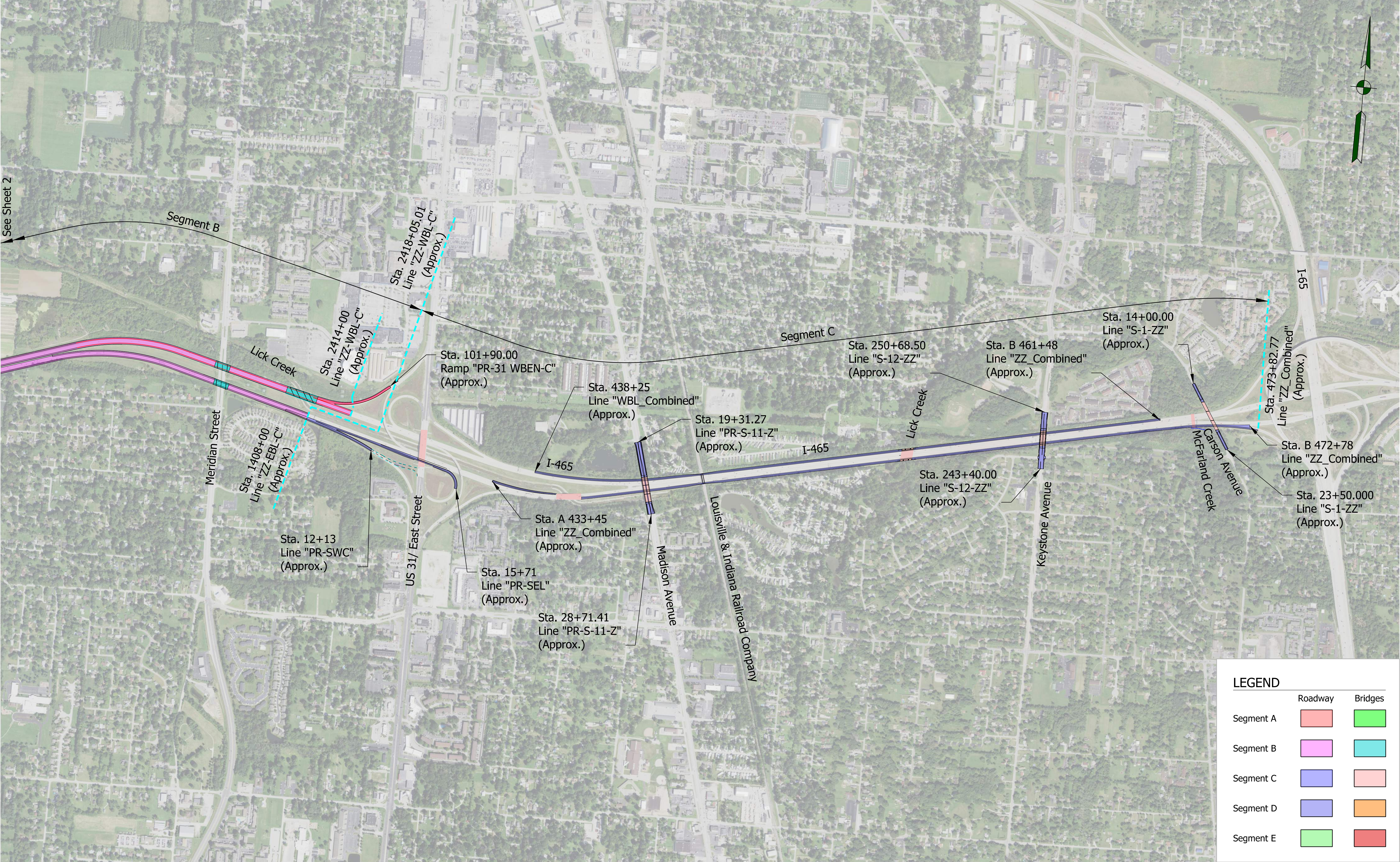


I-69 SECTION 6 CONTRACT 5

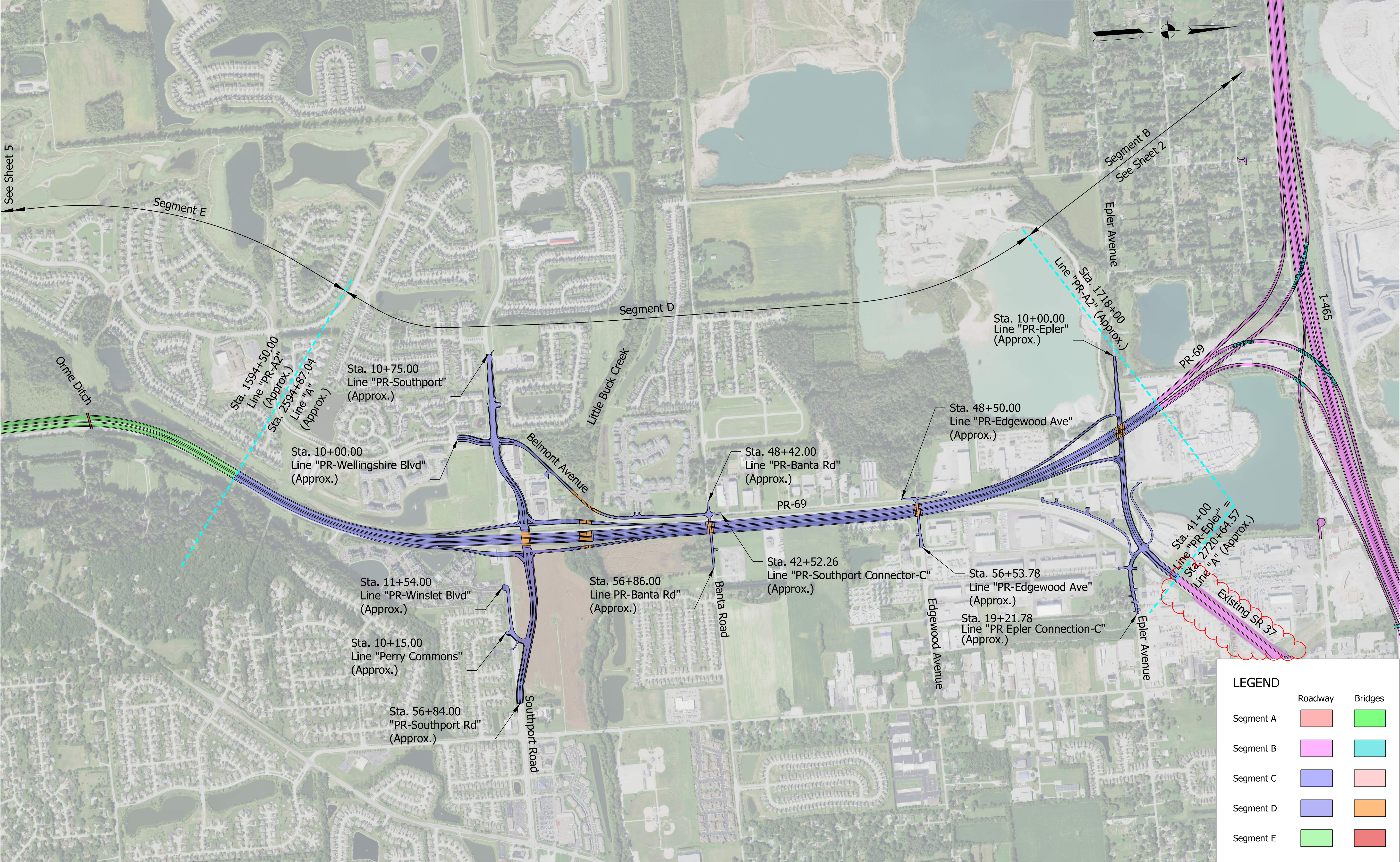


I-69 SECTION 6 CONTRACT 5

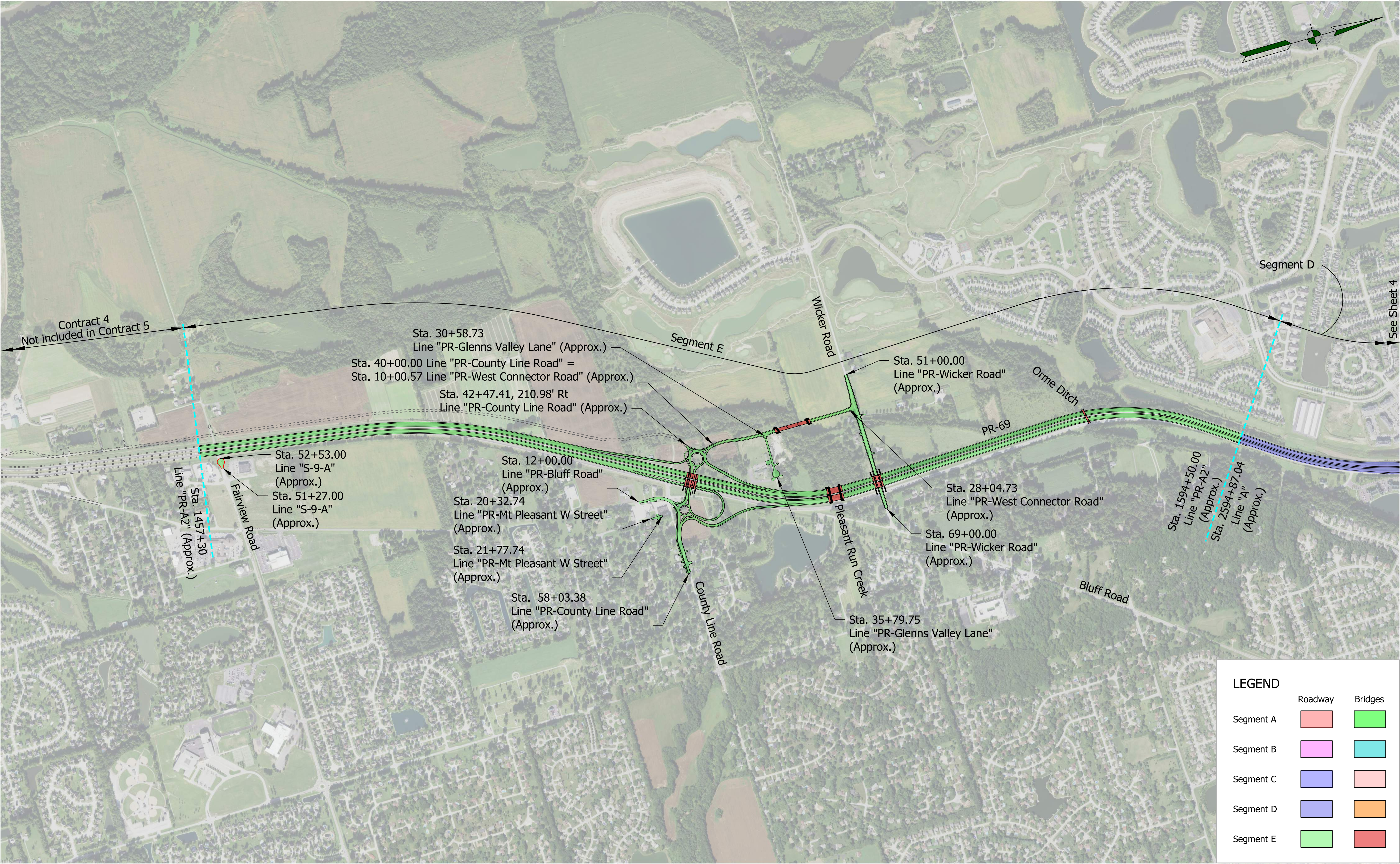
ATTACHMENT 1-3 Project Segments Exhibit



I-69 SECTION 6 CONTRACT 5

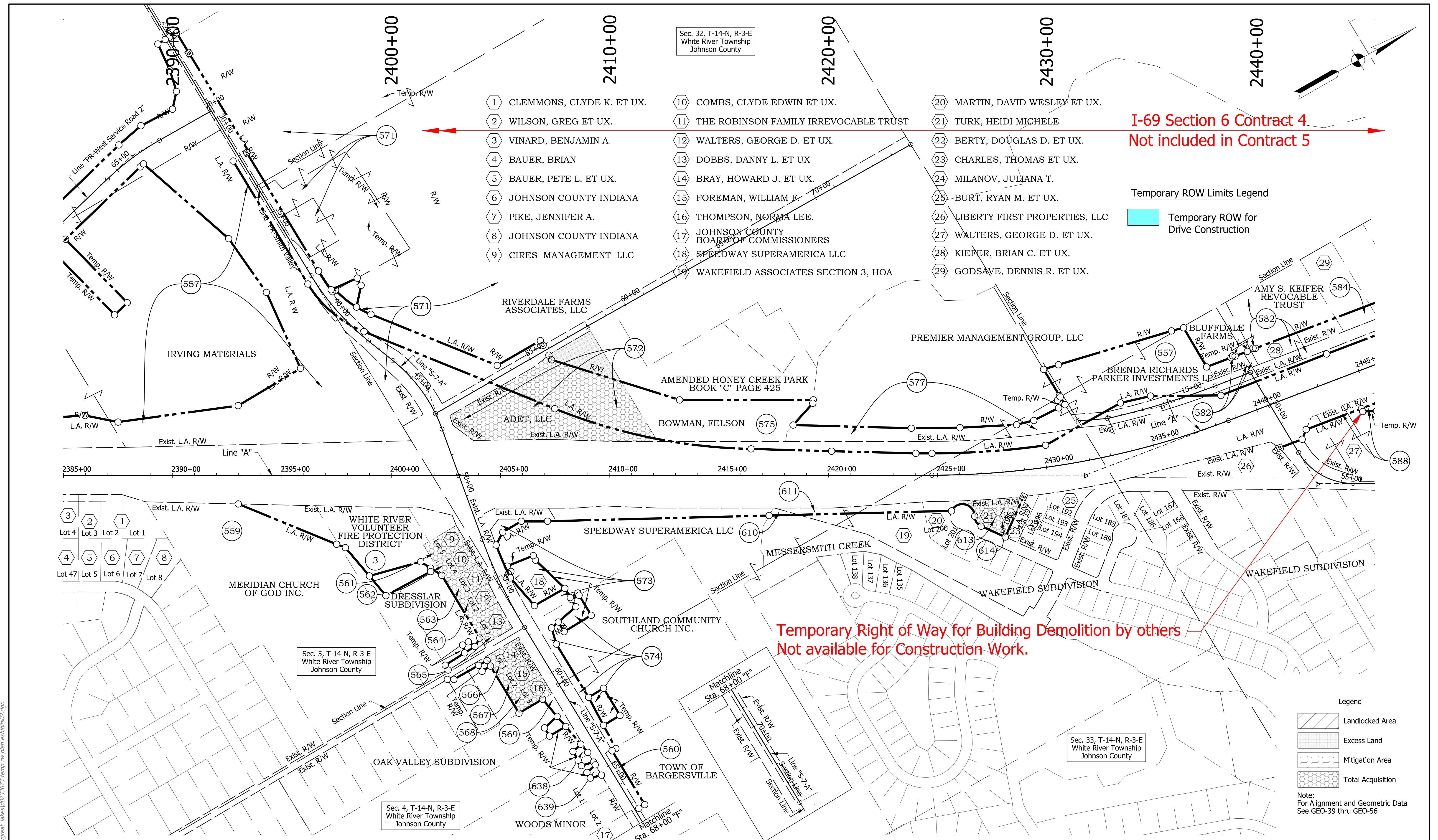


I-69 SECTION 6 CONTRACT 5

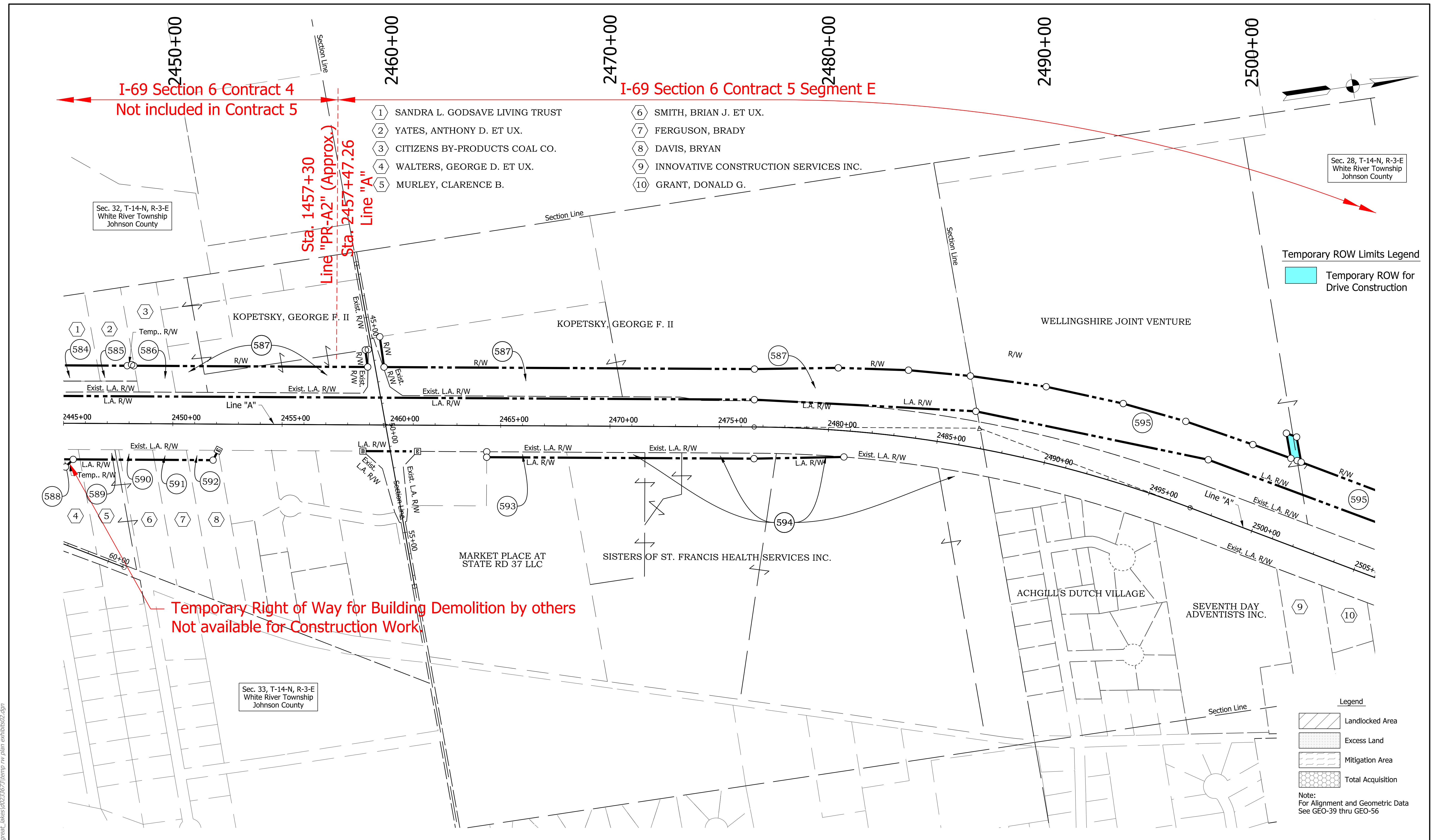


I-69 SECTION 6 CONTRACT 5

ATTACHMENT 1-4 Temporary ROW Limits

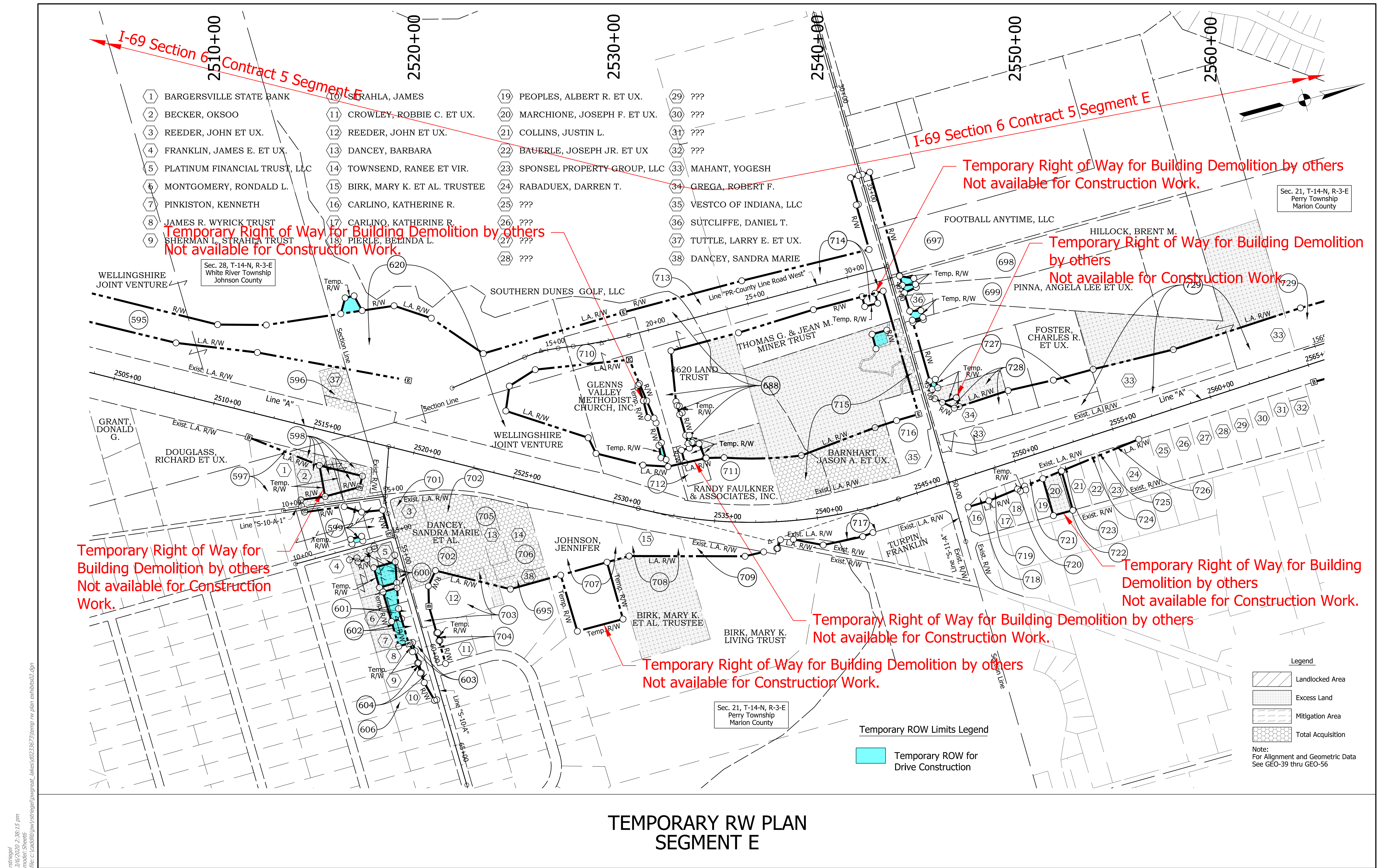


ATTACHMENT 1-4 Temporary ROW Limits



TEMPORARY RW PLAN SEGMENT E

ATTACHMENT 1-4 Temporary ROW Limits

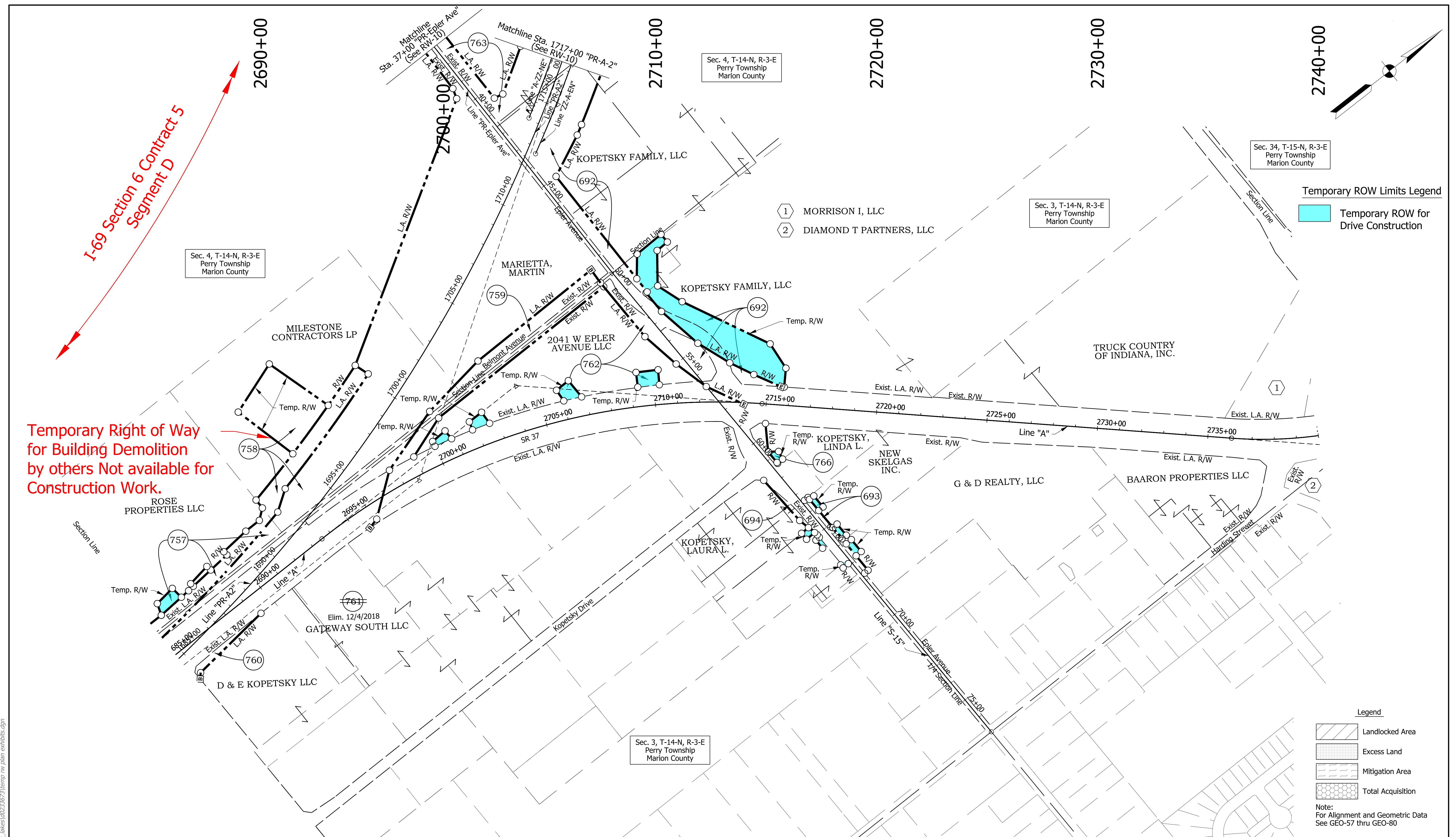


TEMPORARY RW PLAN SEGMENT E & SEGMENT D

I-69 Section 6 Contract 5 Segment D



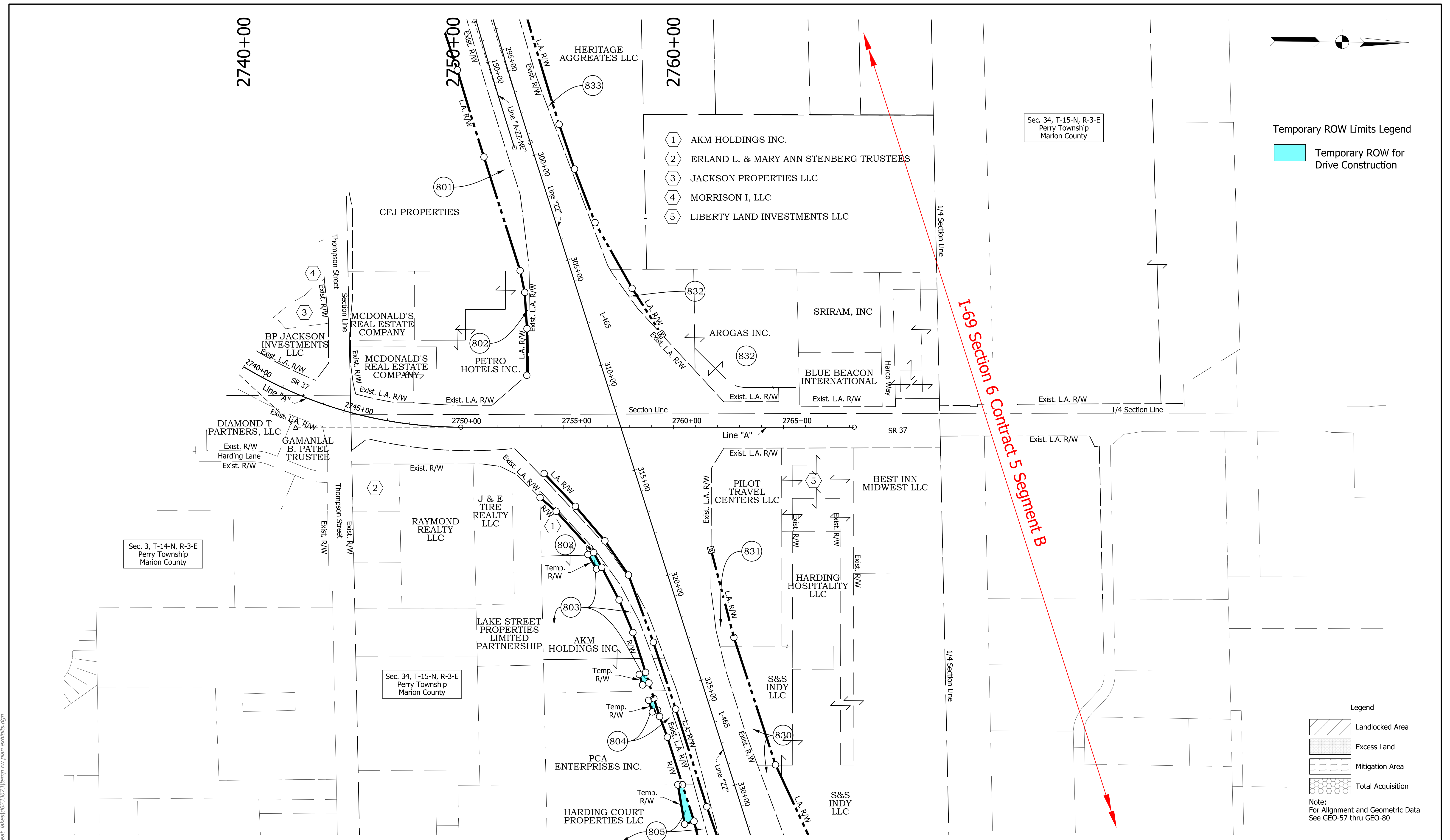
ATTACHMENT 1-4 Temporary ROW Limits



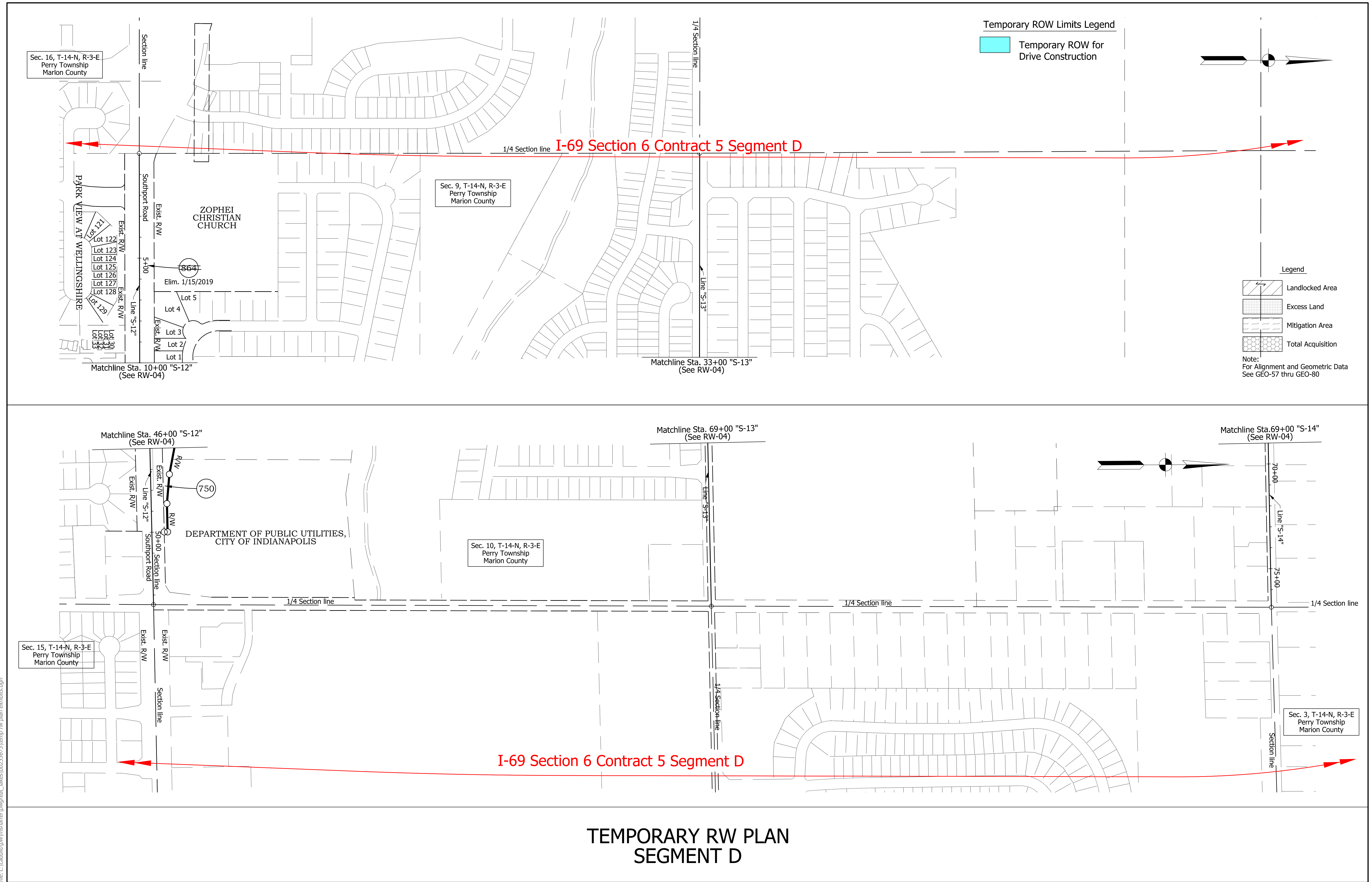
TEMPORARY RW PLAN SEGMENT D

rstriegel
3/6/2020 11:29:46 am
model: Sheet3
file: c:\caddlib\pw\mshaffer\pwgreat_lakes\d0233673[temp nw plan exhibits.dgn

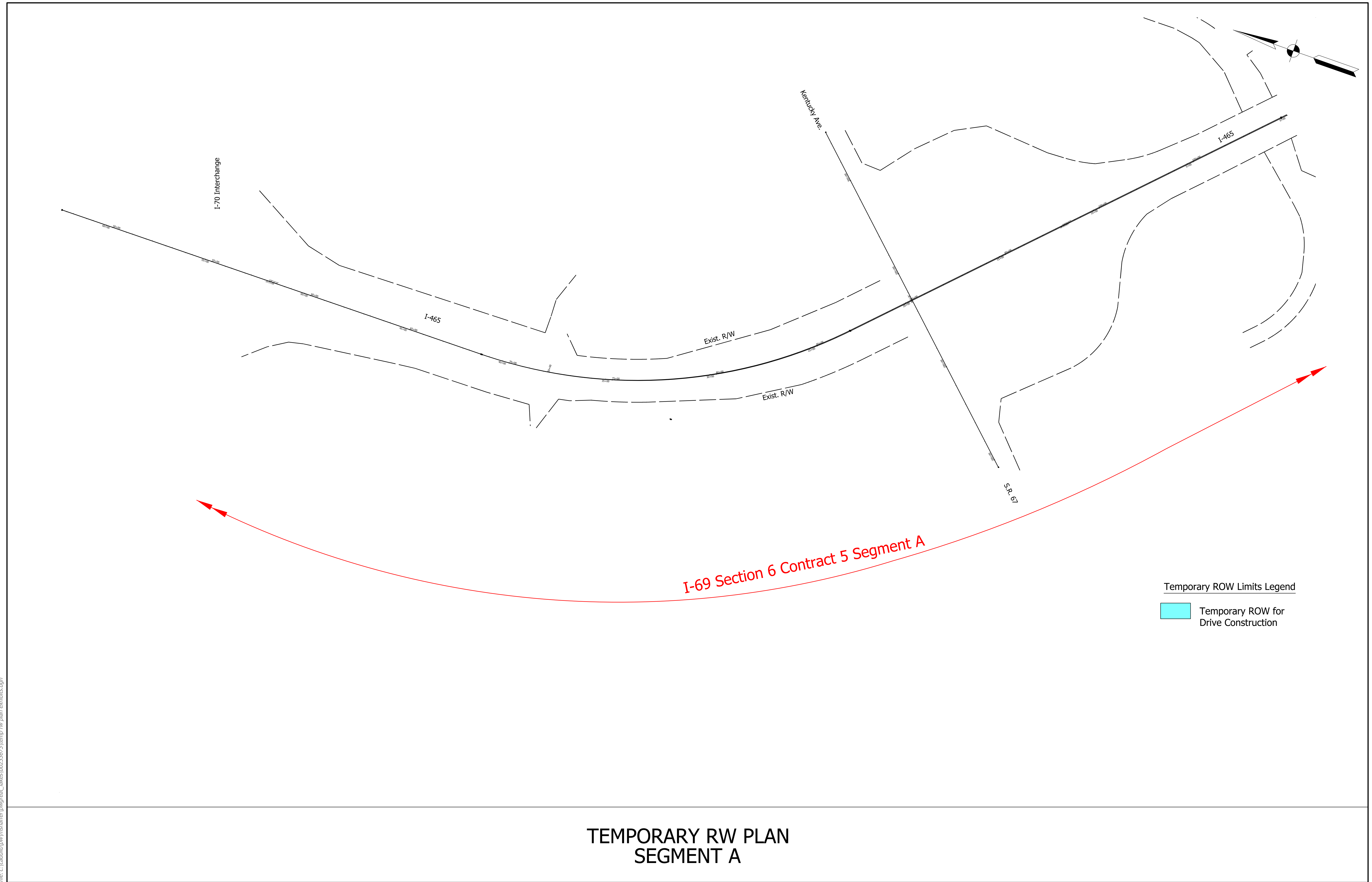
TEMPORARY RW PLAN SEGMENT B



ATTACHMENT 1-4 Temporary ROW Limits

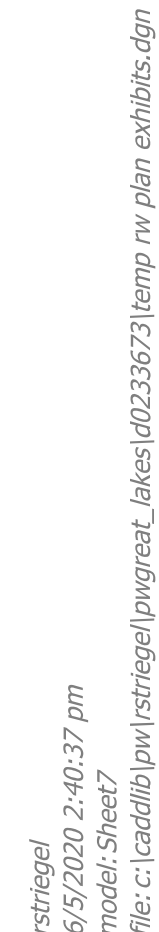


ATTACHMENT 1-4 Temporary ROW Limits

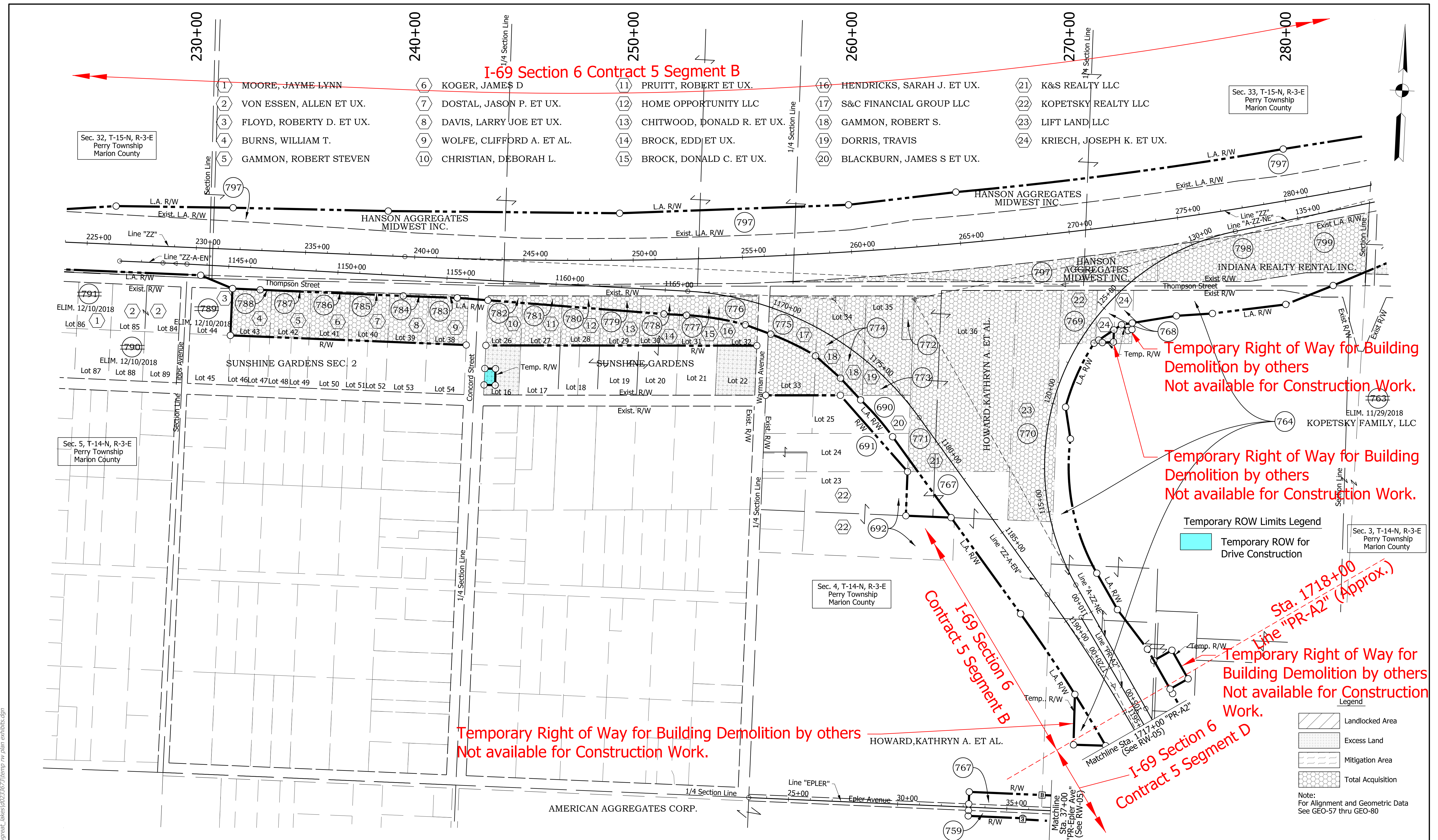


TEMPORARY RW PLAN SEGMENT A & SEGMENT B

REVISED 07-15-2020: MODIFIED TEMP. R/W LIMITS



ATTACHMENT 1-4 Temporary ROW Limits



TEMPORARY RW PLAN SEGMENT B

rstriegel
3/6/2020 11:29:53 am
model: Sheet8
file: c:\caddlib\pw\mshaffer\pwqreat_lakes\d0233673[temp nw plan exhibits.dan

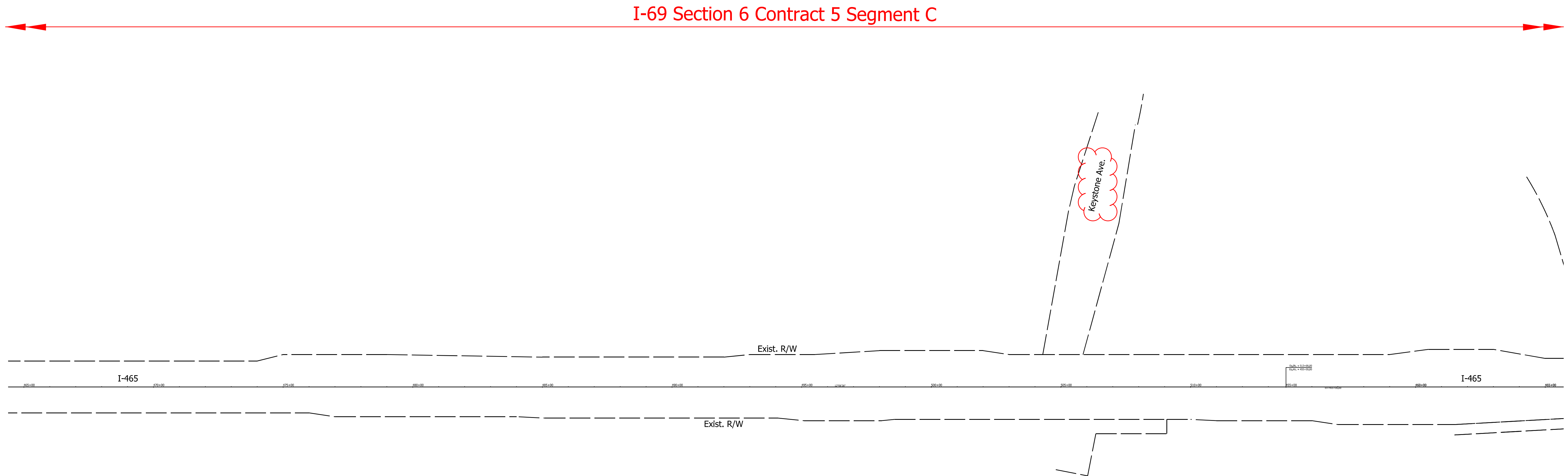
I-69 Section 6 Contract 5 Segment B



SHEET 13 OF 17

TEMPORARY RW PLAN SEGMENT B

TEMPORARY RW PLAN SEGMENT B & SEGMENT C

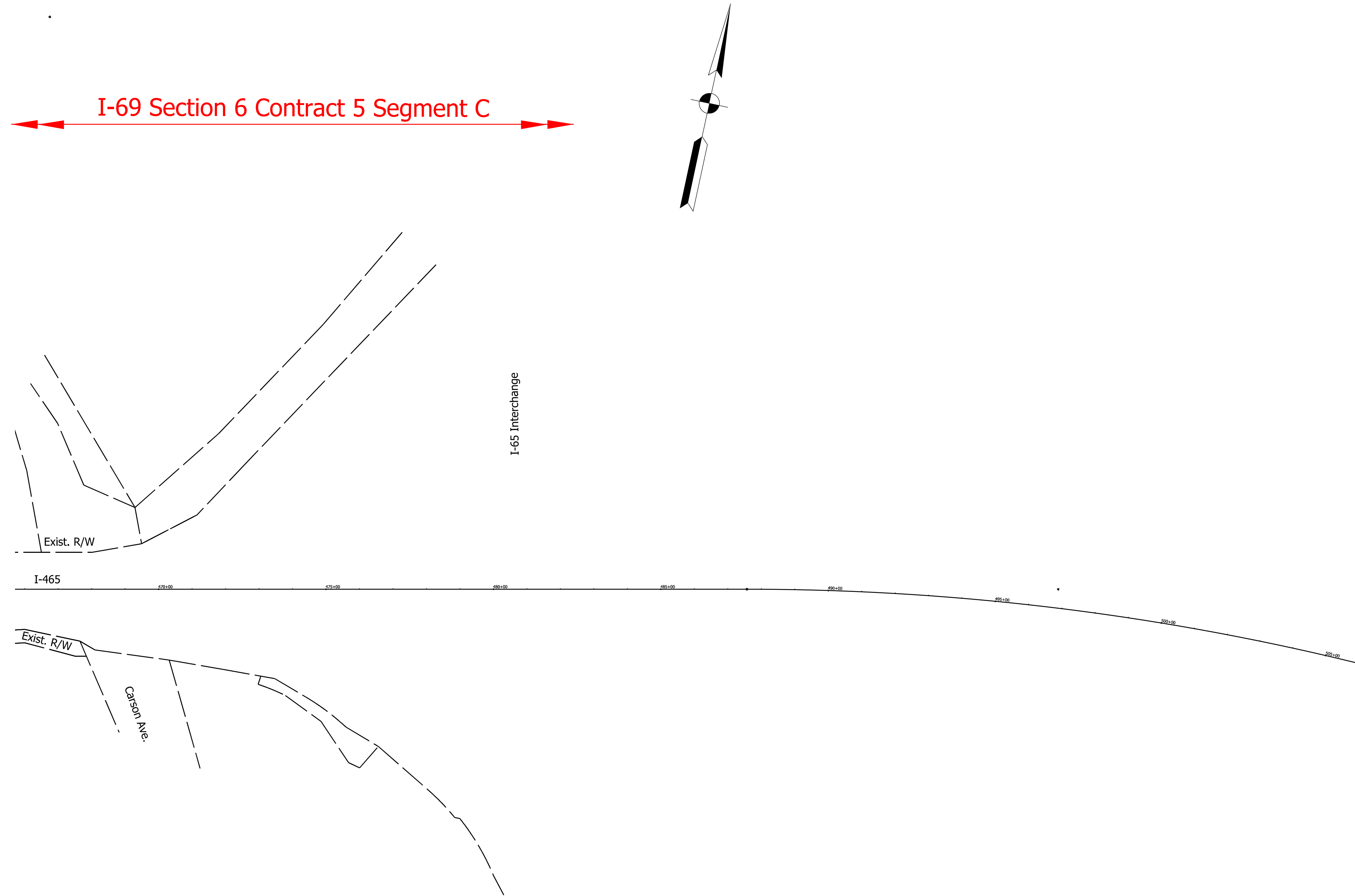


Temporary ROW Limits Legend


Temporary ROW for Drive Construction

TEMPORARY RW PLAN
SEGMENT C

ATTACHMENT 1-4 Temporary ROW Limits



Temporary ROW Limits Legend

 Temporary ROW for Drive Construction

TEMPORARY RW PLAN
SEGMENT C

Attachment 6-1 Conceptual Aesthetics and Landscape Plans



TABLE OF BRIDGE AESTHETICS												
ROAD	CROSSING ²	BRIDGE DES	SEGMENT	SIDEWALK/SHARED- USE PATH	AESTHETIC REQUIREMENTS							
					DARK BROWN FASCIA BEAM & BOTTOM FLANGES OF INTERNAL BEAMS. AMS-STD- 595 A # 30045	I-69 CONCISE HEX PIER	I-465 CENTER PIER	INTERCHANGE RAMP PIER	"I-69 KICK" BARRIER	"I-465 CAP" BARRIER	ABUTMENT/ WING WALLS - I- 69, 3- PANEL, SMOOTH GEOMETRIC MSE WITH CORNER PILASTERS	ABUTMENTS/WING WALLS - I- 465, 3-PANEL, GEOMETRIC SPLIT- FACE MSE WITH CORNER PILASTERS
I-69 NB	County Line Road	1901678	E	N	Y	Y	N	N	Y (Outer)	N	Y	N
I-69 SB	County Line Road	1901679	E	N	Y	Y	N	N	Y (Outer)	N	Y	N
I-69 NB	Pleasant Run Creek *1	1901675	E	N	N	N	N	N	Y	N	N	N
I-69 SB	Pleasant Run Creek *1	1901676	E	N	N	N	N	N	Y	N	N	N
W. Connector Road	Pleasant Run Creek *1	1901689	E	N	N	N	N	N	Y	N	N	N
I-69 NB	Wicker Road	1901680	E	N	Y	N	N	N	Y	N	N	N
I-69 SB	Wicker Road	1901681	E	N	Y	N	N	N	Y	N	N	N
I-69	Orme Ditch	1901691	E		NA	NA	NA	NA	NA	NA	NA	NA
Southport Road	I-69	1901693	D	Y	Y	Y	N	N	Y	N	Y	Y
Southport NBEN	Little Buck Creek *1	1901715	D	N	N	N	N	N	Y	N	Y	Y
I-69 NB	Little Buck Creek *1	1901721	D	N	Y	N	N	N	Y	N	Y	Y
I-69 SB	Little Buck Creek *1	1901722	D	N	Y	N	N	N	Y	N	Y	Y
Southport SBEX	Little Buck Creek *1	1901717	D	N	N	N	N	N	Y	N	Y	Y
Belmont Avenue	Little Buck Creek *1	1901749	D	N	Y	N	N	N	Y	N	Y	Y
I-69 NB	Banta Road	1901757	D	N	Y	Y	N	N	Y	N	Y	Y
I-69 SB	Banta Road	1901758	D	N	Y	Y	N	N	Y	N	Y	Y
I-69 NB	Edgewood Avenue	1901760	D	N	Y	Y	N	N	Y	N	Y	Y
I-69 SB	Edgewood Avenue	1901761	D	N	Y	Y	N	N	Y	N	Y	Y
I-69 NB	Epler Avenue	1901764	D	N	Y	Y	N	N	Y	N	Y	Y
I-69 SB	Epler Avenue	1901766	D	N	Y	Y	N	N	Y	N	Y	Y
* 1. NO AESTHETIC REQUIREMENTS ON WATERWAY BRIDGE PIERS. WATERWAY BRIDGE PIERS SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH PROJECT STANDARDS.												



TABLE OF BRIDGE AESTHETICS (CONT.)												
ROAD	CROSSING	BRIDGE DES	SEGMENT	SIDEWALK/SHARED- USE PATH	AESTHETIC REQUIREMENTS							
					DARK BROWN FASCIA BEAM & BOTTOM FLANGES OF INTERNAL BEAMS. AMS-STD- 595 A # 30045	I-69 CONCISE HEX PIER	I-465 CENTER PIER	INTERCHANGE RAMP PIER	"I-69 KICK" BARRIER	"I- 465 CAP" BARRIER	ABUTMENT/ WING WALLS - I- 69, 3- PANEL, SMOOTH GEOMETRIC MSE WITH CORNER PILASTERS	ABUTMENTS/WING WALLS - I- 465, 3-PANEL, GEOMETRIC SPLIT- FACE MSE WITH CORNER PILASTERS
Moorsville Road (Bypass) over I-465	I-465	1900750	B		Y	N	Y	N	N	Y	N	Y
Mann Road	I-465	1901768	B	N	Y	N	Y	N	N	Y	N	Y
I-465 EB	Harmon (State) Ditch *1	1901769	B	N	N	N	N	N	N	Y	N	Y
I-465 WB	Harmon (State) Ditch *1	1901770	B	N	N	N	N	N	N	Y	N	Y
I-465 EB	White River	1901799	B	N	Y	N	Special Wall Pier	N	N	Y	N	Y
I-465 WB	White River	1901800	B	N	Y	N	Special Wall Pier	N	N	Y	N	Y
I-69 NB to I-465 WB	I-465	1901801	B	N	Y	N	N	Y (**2.)	N	Y	N	Y
I-465 WB to I-69 SB	I-69 NB to I-465 WB	2001108	B	N	Y	N	N	Y	N	Y	N	Y
I-465 WB to I-69 SB	I-465 and I-465 EB to Harding	2001109	B	N	Y	N	N	Y	N	Y	N	Y
I-69 NB to I-465 EB	I-465 EB to Harding	1901822	B	N	Y	N	N	Y	N	Y	N	Y
I-465	Haueisen Ditch	1901817	B		NA	NA	NA	NA	NA	NA	NA	NA
I-465 WB to I-69 SB	Harding to I-465 WB	1901825	B	N	Y	N	Y (**2.)	N	N	Y	N	Y
I-465 WB to I-69 SB	Harding Street	1901826	B	N	Y	N	Y	N	N	Y	N	Y
I-465 EB	Harding Street	2001107	B	N	Y	Y	N	N	N	Y	N	Y
I-465 WB	Harding Street	1901752	B	N	Y	Y	N	N	N	Y	N	Y
I-465 EB	The Indiana Rail Road Company	1901829	B	N	Y	N	N	N	N	Y	N	Y
I-465 WB	The Indiana Rail Road Company	1901830	B	N	Y	N	N	N	N	Y	N	Y
I-465 EB	Bluff Road	1901832	B	N	Y	N	N	N	N	Y	N	Y
I-465 WB	Bluff Road	1901834	B	N	Y	N	N	N	N	Y	N	Y
* 1. NO AESTHETIC REQUIREMENTS ON WATERWAY BRIDGE PIERS. WATERWAY BRIDGE PIERS SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH PROJECT STANDARDS.												
** 2. IF STRADDLE BENTS USED, REFER TO PAGE 9 DETAIL ATTACHMENT 6-1.												

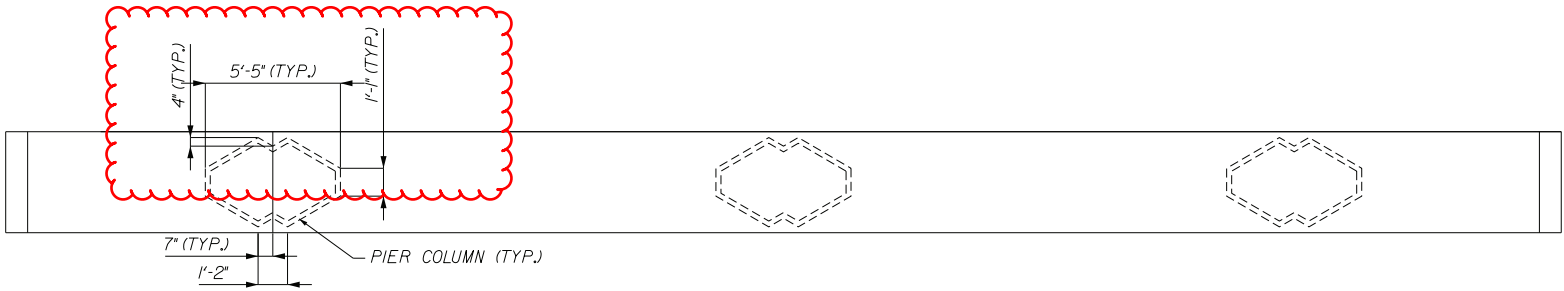


TABLE OF BRIDGE AESTHETICS (CONT.)												
ROAD	CROSSING	BRIDGE DES	SEGMENT	SIDEWALK/SHARED- USE PATH	AESTHETIC REQUIREMENTS							
					DARK BROWN FASCIA BEAM & BOTTOM FLANGES OF INTERNAL BEAMS. AMS-STD- 595 A # 30045	I-69 CONCISE HEX PIER	I-465 CENTER PIER	INTERCHANGE RAMP PIER	"I-69 KICK" BARRIER	"I-465 CAP" BARRIER	ABUTMENT/ WING WALLS - I- 69, 3- PANEL, SMOOTH GEOMETRIC MSE WITH CORNER PILASTERS	ABUTMENTS/WING WALLS - I- 465, 3-PANEL, GEOMETRIC SPLIT- FACE MSE WITH CORNER PILASTERS
I-465 EB	Meridian Street	1901759	B	N	Y	N	Y	N	N	Y	N	Y
I-465 WB	Meridian Street	1901765	B	N	Y	N	N	N	N	Y	N	Y
I-465 WB	Lick Creek *1	1901837	B	N	N	N	N	N	N	Y	N	Y
US 31	I-465 & Lick Creek *1	N/A	C	N	N	N	N	N	N	N	N	N
US 31 NB Ramp	Lick Creek *1	1900744	C	N	N	N	N	N	N	N	N	N
I-465 EB	Lick Creek *1	1700949	C	N	N	N	N	N	N	N	N	N
Madison Ave	I-465 & Lick Creek	1900757	C	Y	Y	N	Y	N	N	Y	N	Y
I-465 EB	Lick Creek *1	1900748	C	N	N	N	N	N	N	N	N	N
I-465 WB	Lick Creek *1	1900749	C	N	N	N	N	N	N	N	N	N
Keystone Ave	I-465	1701345	C	Y	Y	N	Y	N	N	Y	N	Y
I-465	McFarland Creek	1901390	C		NA	NA	NA	NA	NA	NA	NA	NA
Carson Ave	I-465 & Lick Creek	1900758	C	N	Y	N	Y	N	N	Y	N	Y
NOTE: 1. NO AESTHETIC REQUIREMENTS ON WATERWAY BRIDGE PIERS. WATERWAY BRIDGE PIERS SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH PROJECT STANDARDS.												



NOTES :
1. THESE DETAILS REPRESENT THE VISUAL TREATMENT AND PROPORTIONING OF THE AESTHETIC ELEMENTS OF THE BRIDGES. THE DESIGN-BUILD CONTRACTOR SHALL COMPLY WITH THE STRUCTURAL REQUIREMENTS AND ALL OTHER REQUIREMENTS FOR THESE ELEMENTS.

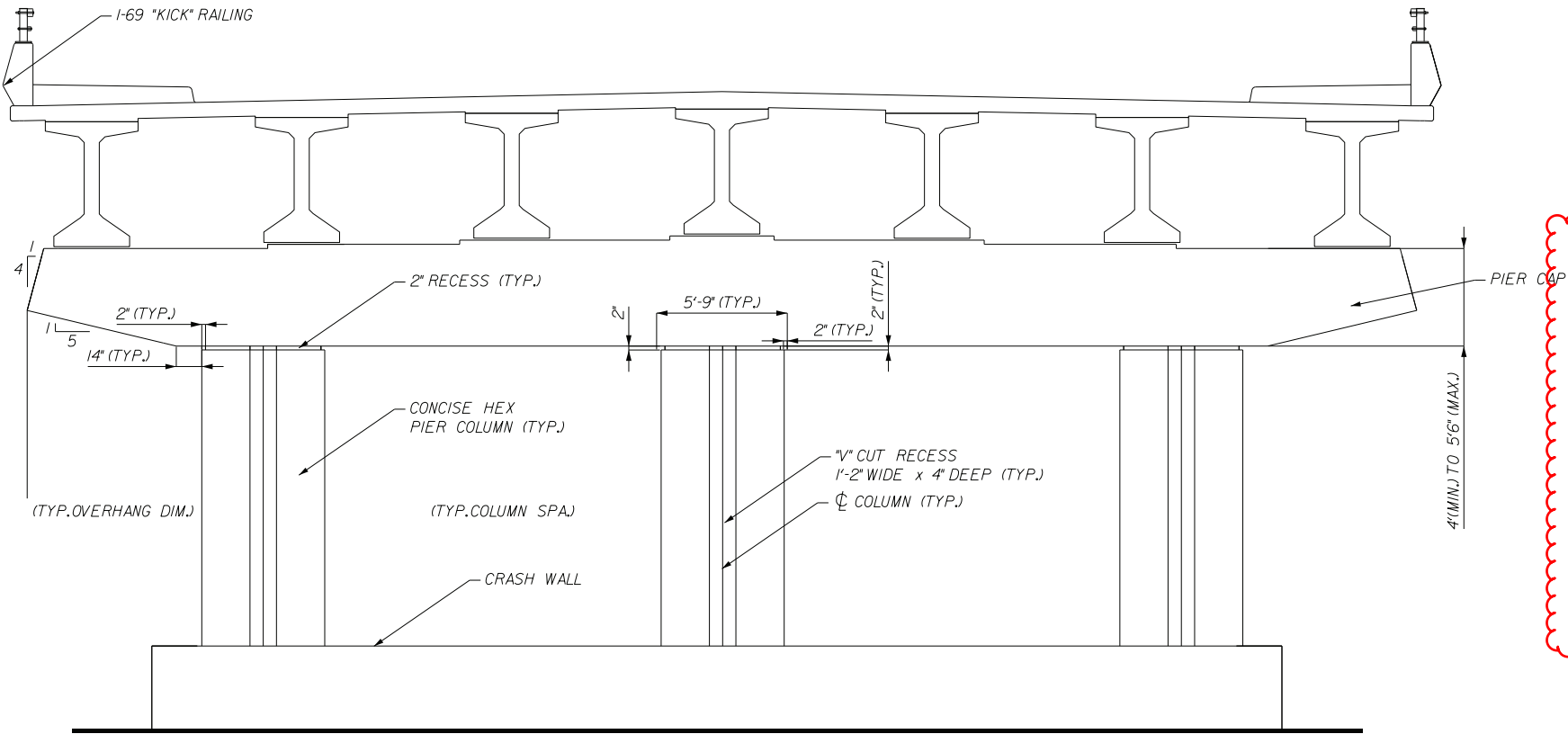
Revised 07--15- 2020: Clarified Pier Cap Offset and Column Width Requirements.



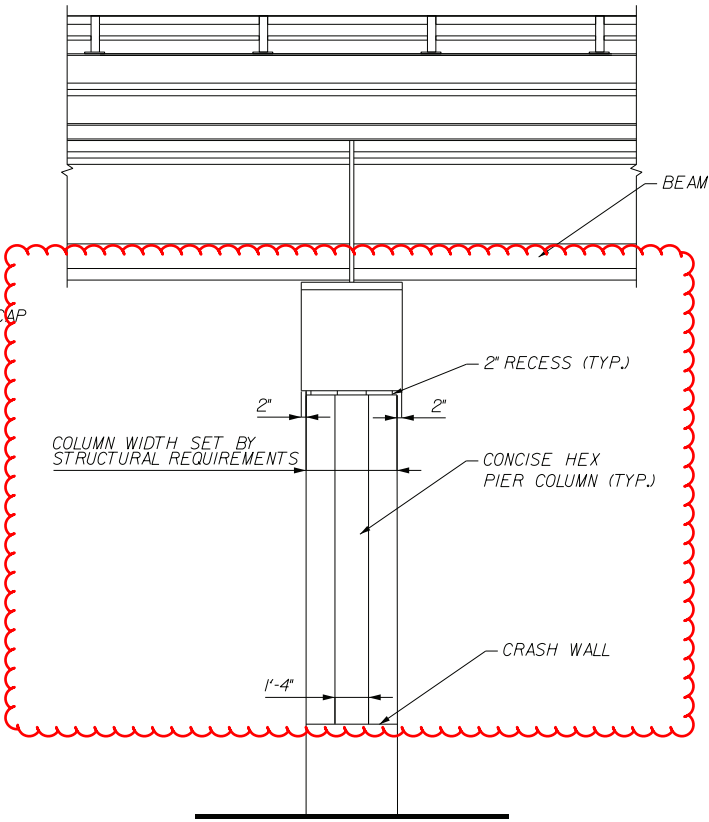
PLAN VIEW



3-D VISUALIZATION



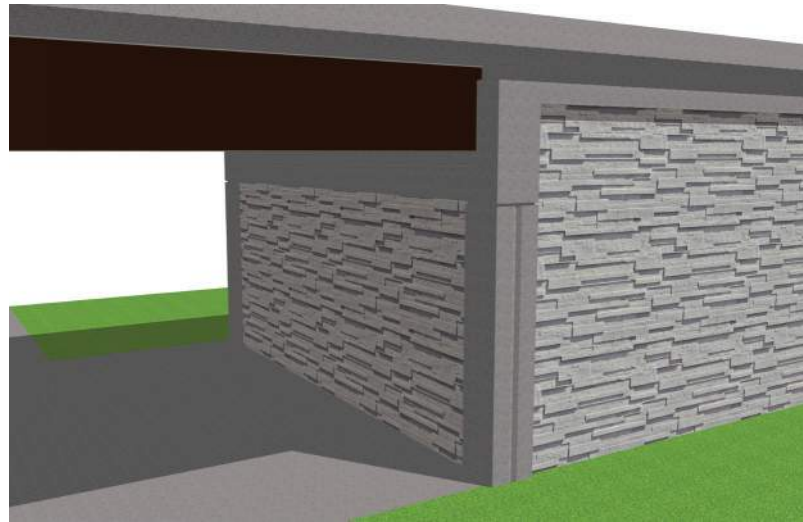
"I-69 CONCISE HEX" PIER
FRONT ELEVATION



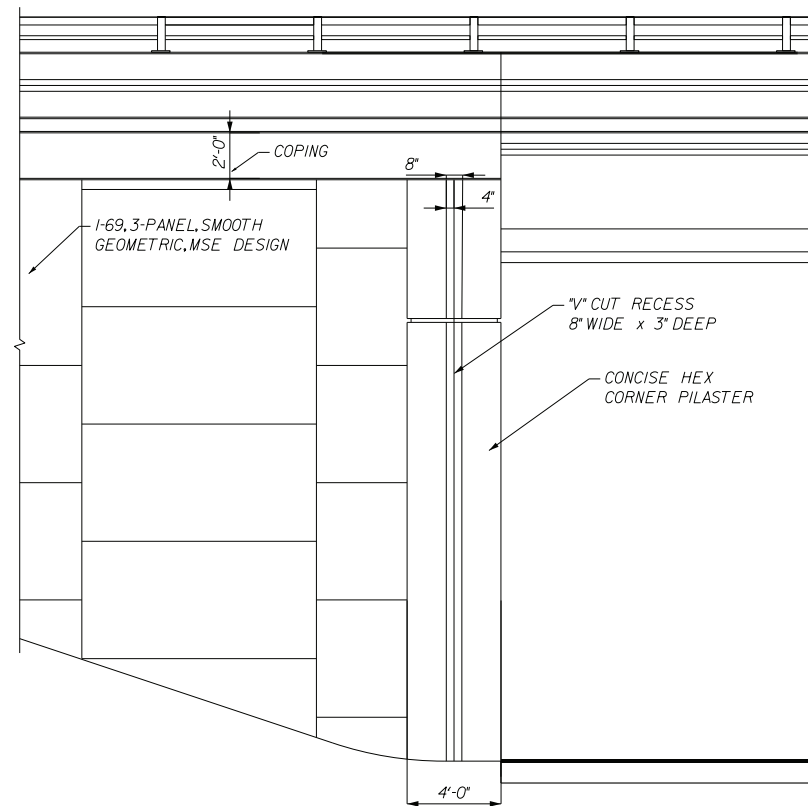
"I-69 CONCISE HEX" PIER
END ELEVATION

- 1. HEIGHT OF COLUMNS MAY VARY.
- 2. PIER DIMENSION MAY BE ADJUSTED PROPORTIONATELY TO MEET STRUCTURAL REQUIREMENTS.

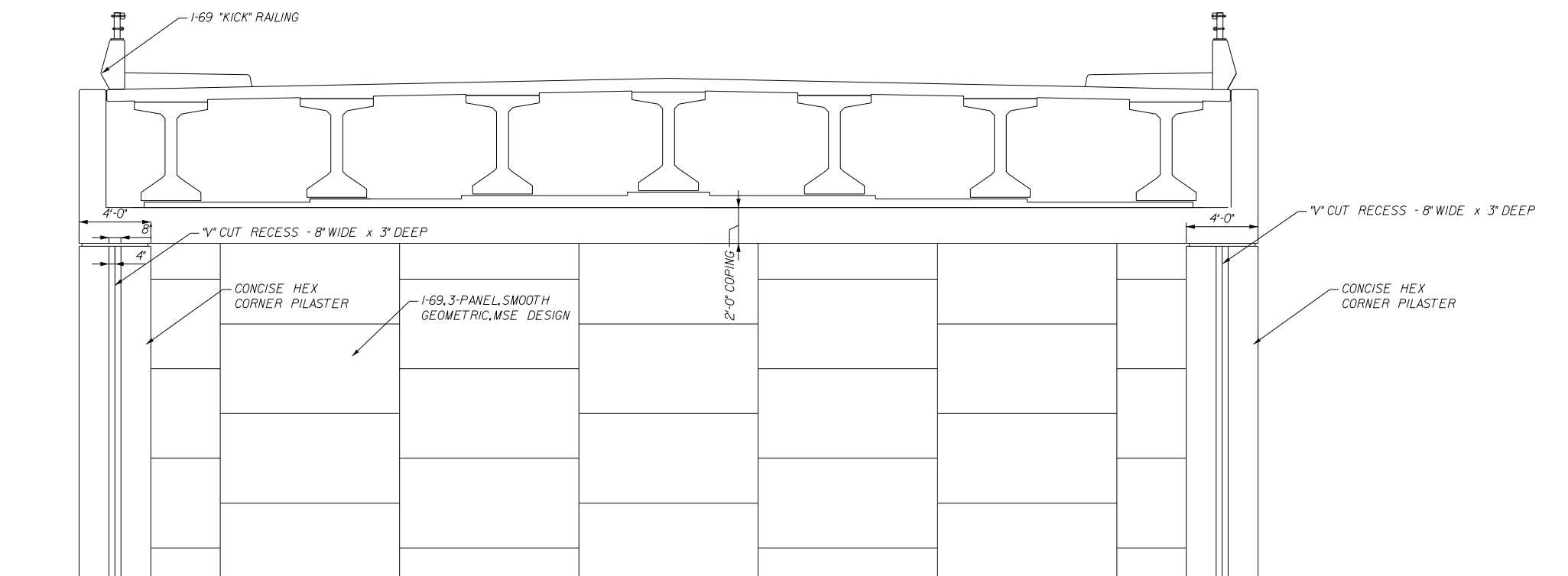




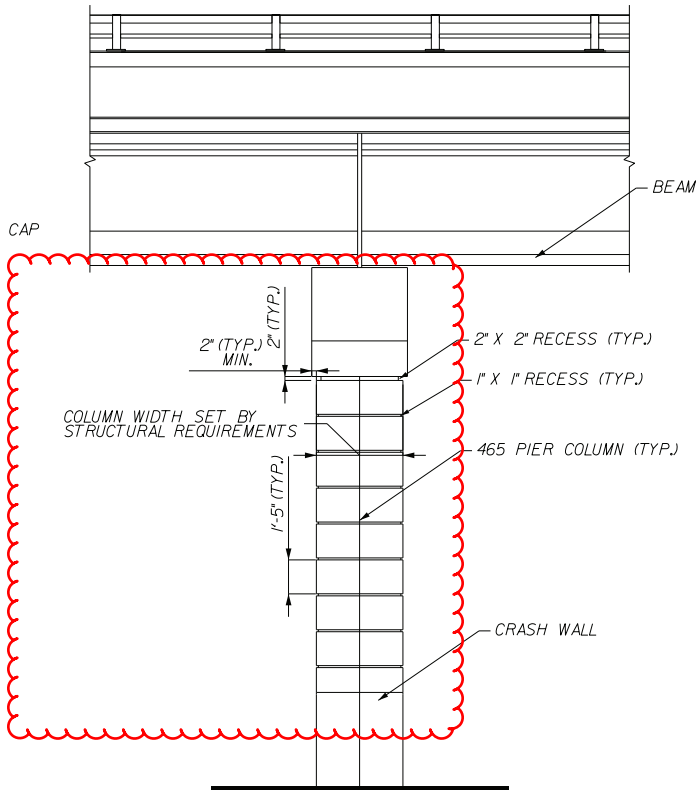
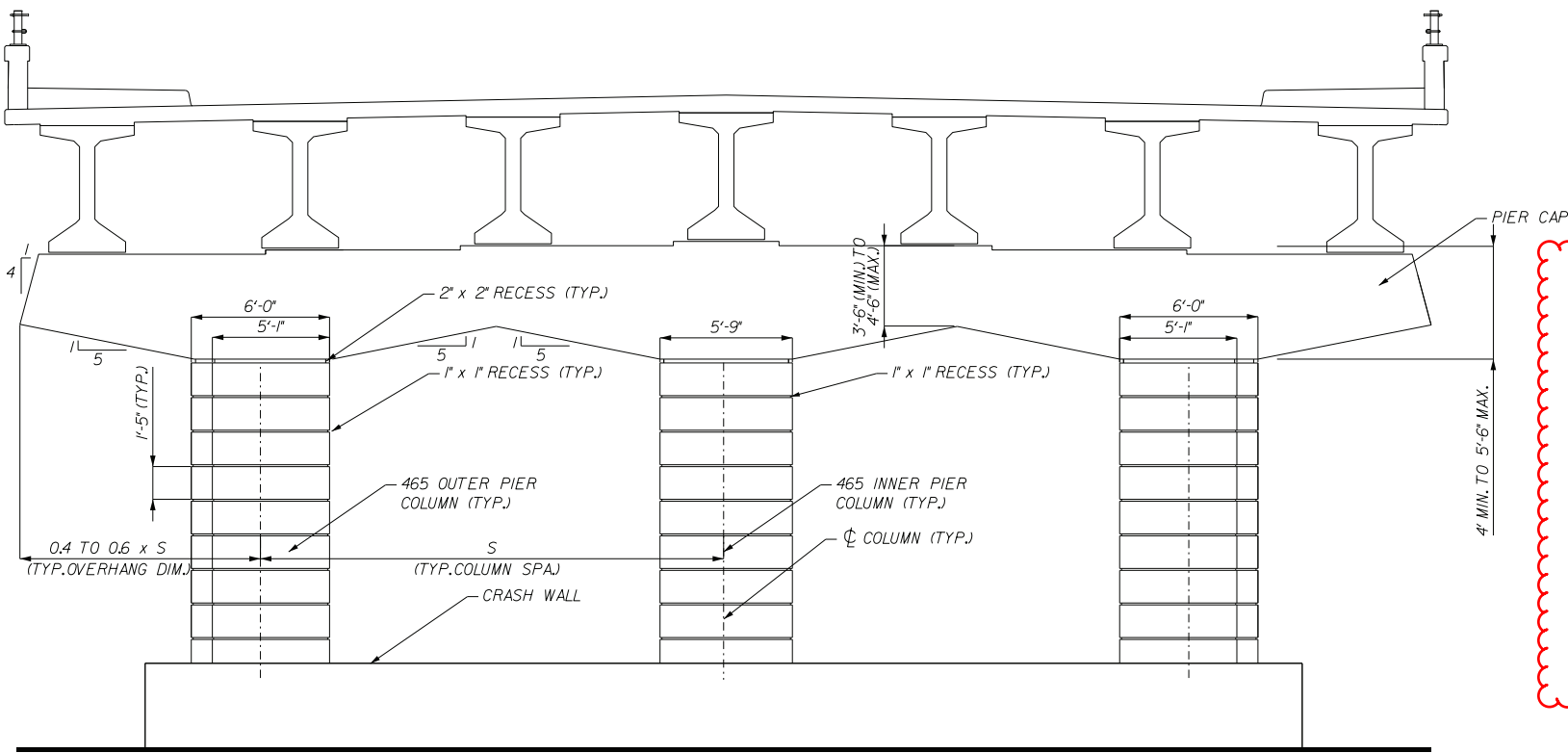
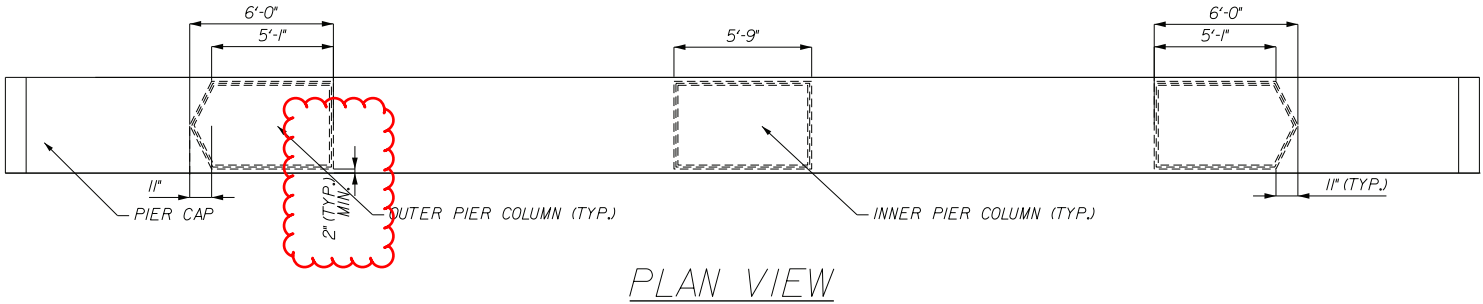
3-D VISUALIZATION



SIDE ELEVATION
TYPICAL CORNER PILASTER



TYPICAL ABUTMENT ELEVATION
"I-69 CONCISE HEX" CORNER PILASTERS

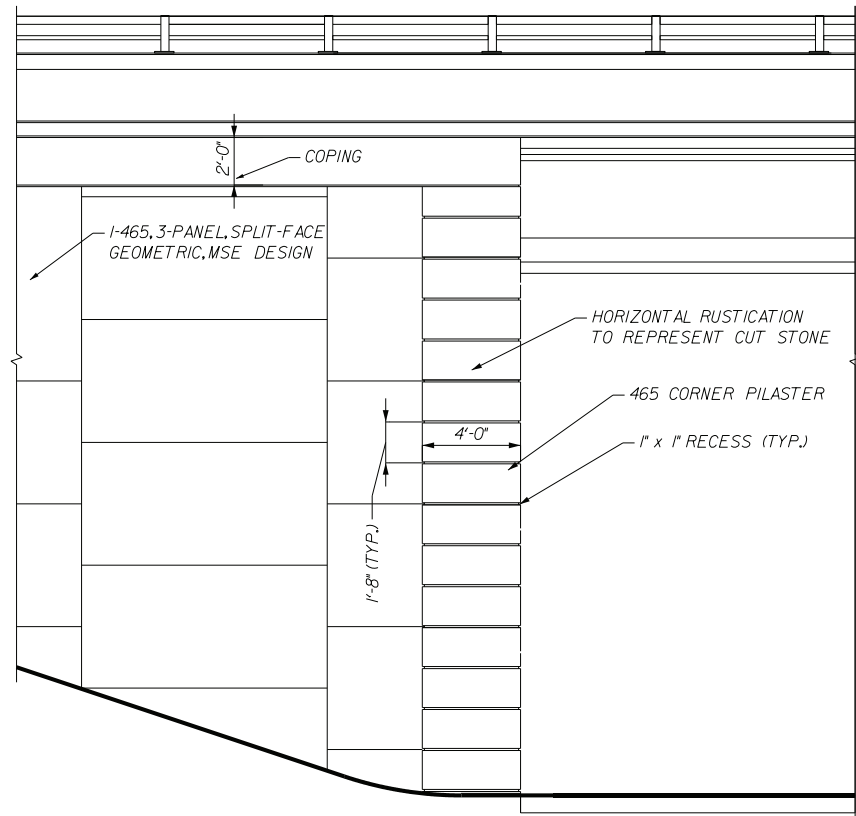


"I-465 PIER" - FRONT ELEVATION

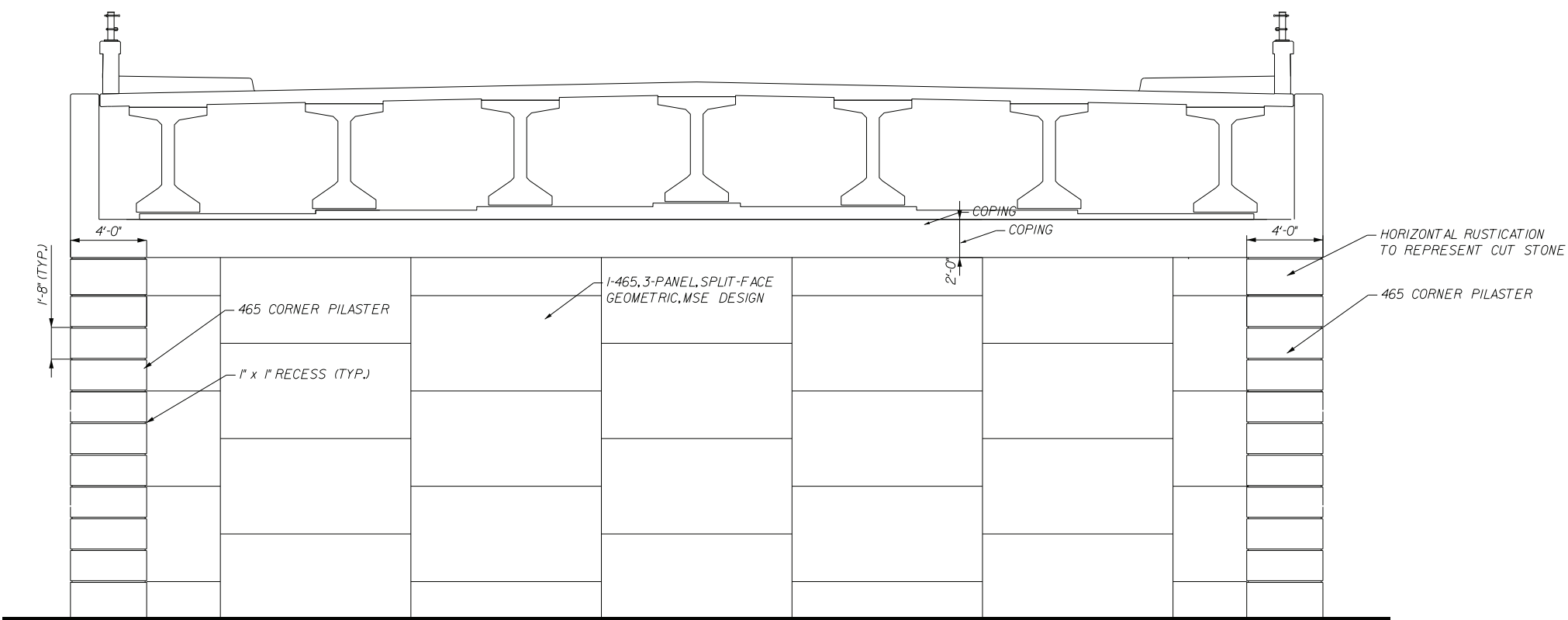
"I-465 PIER" - END ELEVATION



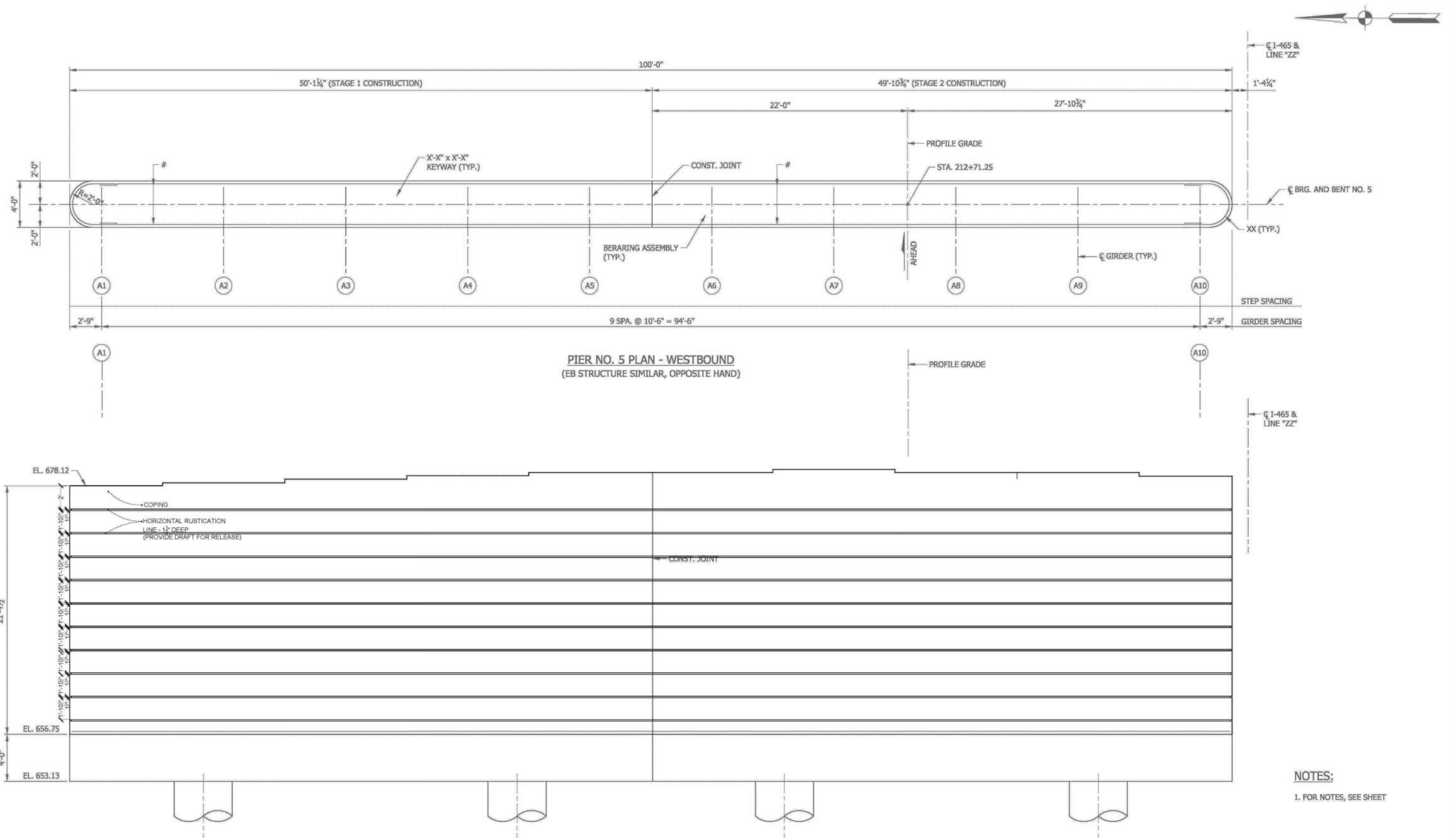
3-D VISUALIZATION



SIDE ELEVATION
TYPICAL I-465 CORNER PILASTER



TYPICAL ABUTMENT ELEVATION
I-465 CORNER PILASTERS



I-465 EB & WB OVER WHITE RIVER - PIER AESTHETICS

PIER NO. 5 ELEVATION - WESTBOUND

(EB STRUCTURE SIMILAR, OPPOSITE HAND)



I-69 SECTION 6 CONTRACT 5 PROJECT - CONCEPTUAL AESTHETICS AND LANDSCAPE PLANS

Technical Provision Attachment 6 -1 - ADDENDUM #2 - July 15, 2020

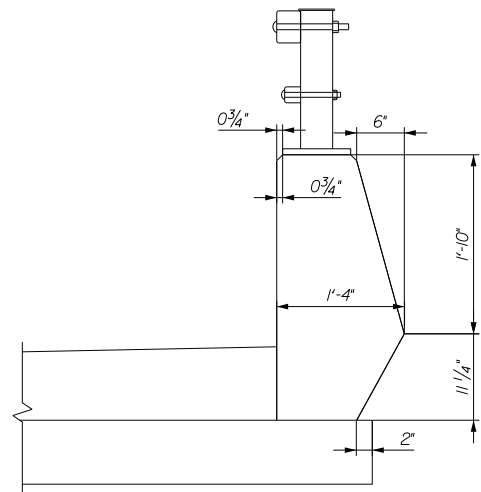
Section 2: BRIDGE AESTHETICS DETAILS



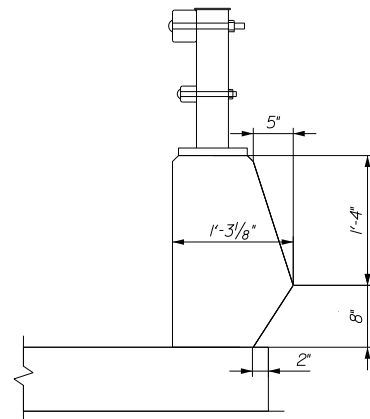


EXTEND BEVEL OF OUTER FACE OF
PIER COLUMN THROUGH STRADDLE
BENT PIER CAP (TYP.) PIER COLUMN
TO MATCH TYPICAL I-465 OUTER PIER
COLUMN.

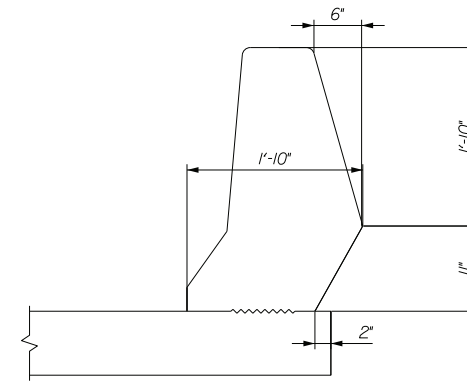
3-D VISUALIZATION OF TYPICAL I-465 INTERCHANGE STRADDLE BENT



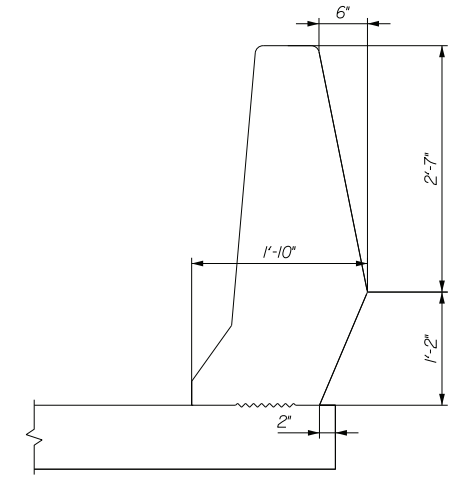
RAILING, PSI MODIFIED
"I-69 KICK"



RAILING, PFI MODIFIED
"I-69 KICK"

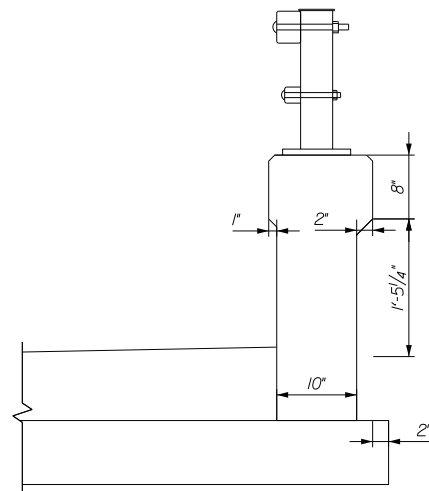


CONCRETE RAILING, FC MODIFIED
"I-69 KICK"

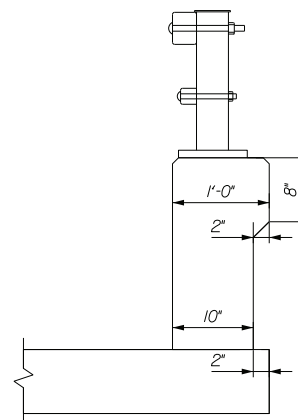


CONCRETE RAILING, FT MODIFIED
"I-69 KICK"

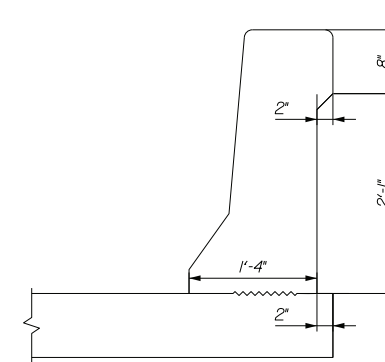
NOTE: THE "I-69 KICK BARRIER" IS NOT REQUIRED FOR MEDIAN BARRIERS WHERE A 1" OPEN JOINT IS REQUIRED BETWEEN ADJACENT BRIDGES, INDOT'S STANDARD BARRIER SHALL BE USED.



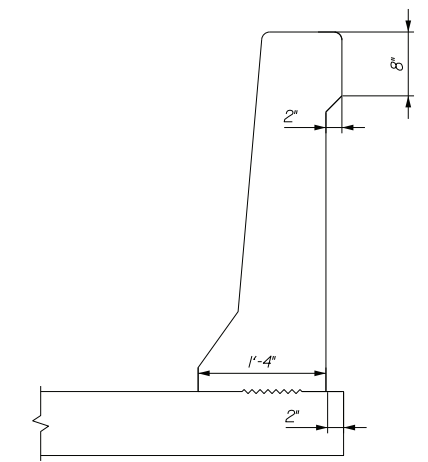
RAILING, PSI MODIFIED
"I-465 CAP"



RAILING, PFI MODIFIED
"I-465 CAP"



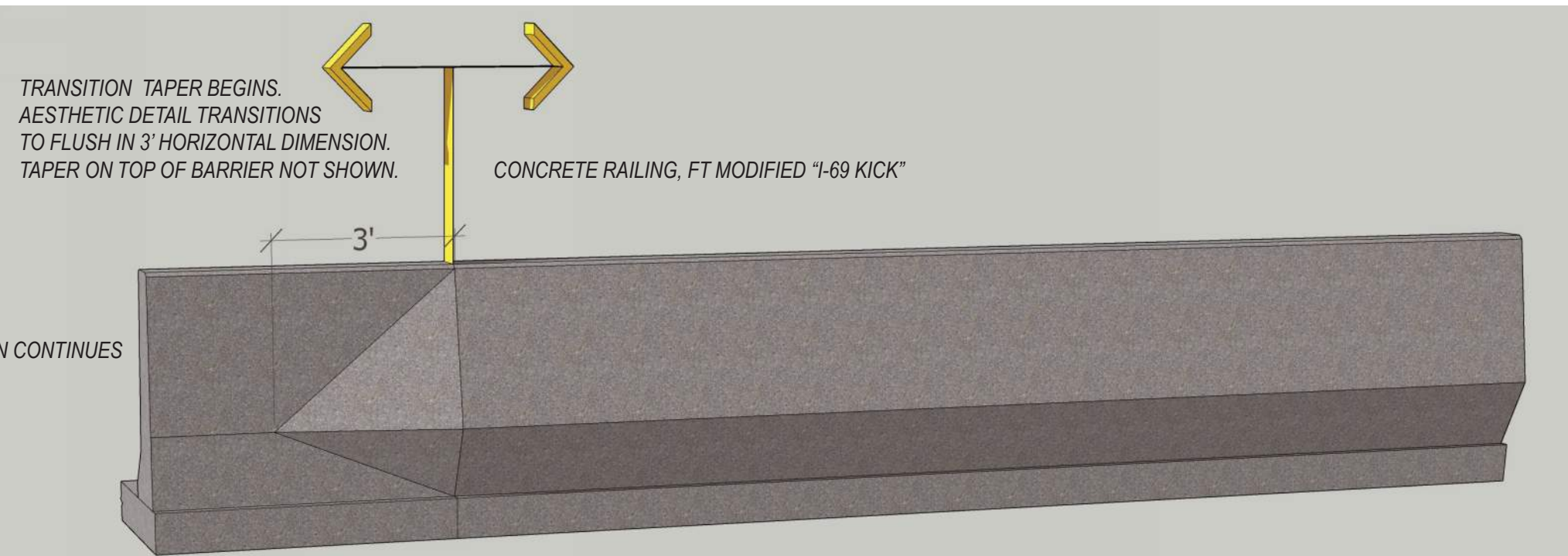
CONCRETE RAILING, FC MODIFIED
"I-465 CAP"



CONCRETE RAILING, FT MODIFIED
"I-465 CAP"

NOTE: FOR OTHER RAILING DETAILS AND DIMENSIONS
SEE INDOT STANDARD DRAWINGS

BARRIER TRANSITION CONTINUES

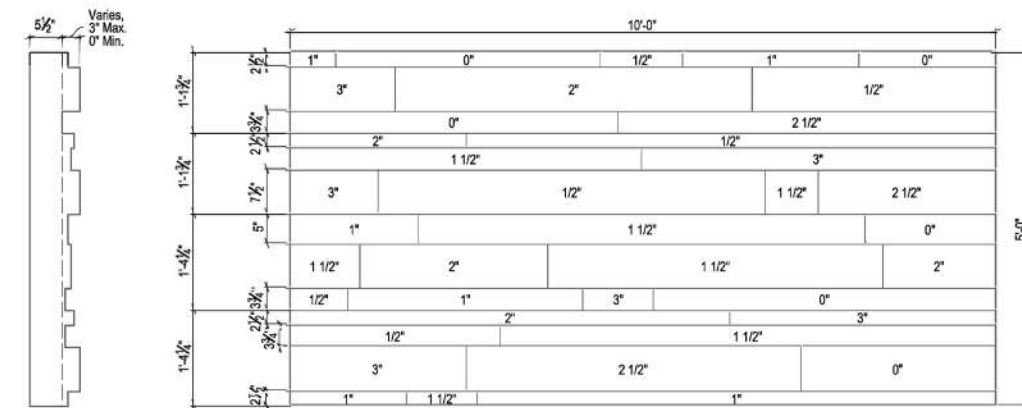


CONCRETE RAILING, FT MODIFIED "I-69 KICK" TRANSITION DETAIL

BARRIER TRANSITION CONTINUES



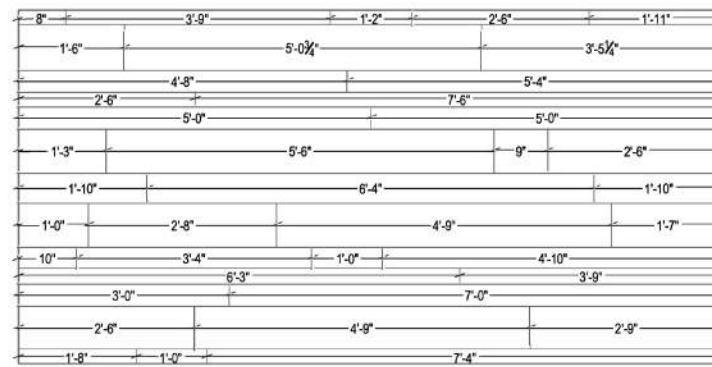
CONCRETE RAILING, FT MODIFIED "I-465 CAP" TRANSITION DETAIL



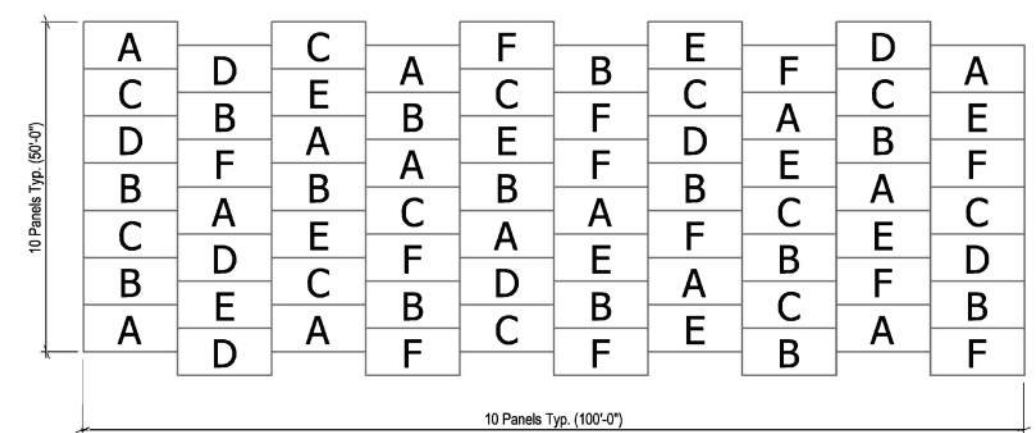
NOTE: Amount of relief above 5 1/2" MSE Panel thickness indicated on elevation above

MSE PANEL A - (PANEL D when Rotated 180°)

Scale: None

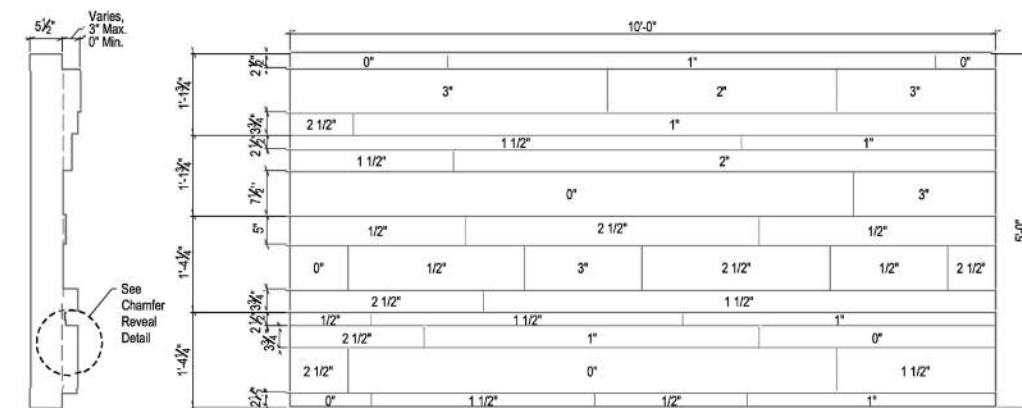


NOTE: Dimensions are based on a 5'x10' nominal MSE Panel.
Dimensions can be modified to fit actual panel measurements.



TYPICAL MSE WALL PANEL LAYOUT

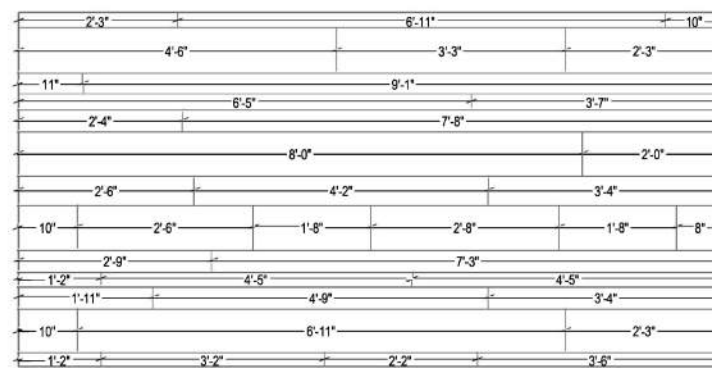
Scale: None



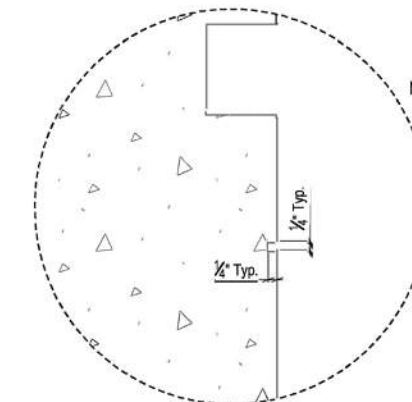
NOTE: Amount of relief above 5 1/2" MSE Panel thickness indicated on elevation above

MSE PANEL B - (PANEL E when Rotated 180°)

Scale: None



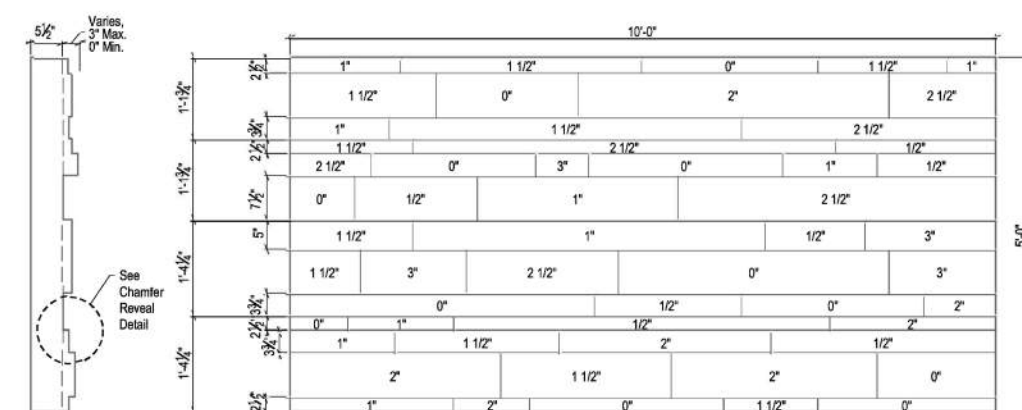
NOTE: Dimensions are based on a 5'x10' nominal MSE Panel.
Dimensions can be modified to fit actual panel measurements.



NOTE: Where adjacent surfaces are the same protrusion, insert a 1/4" x 1/4" reveal to continue horizontal pattern.
On 0" relief surface, use 1/8" x 1/8" protrusion.

TYPICAL CHAMFER REVEAL

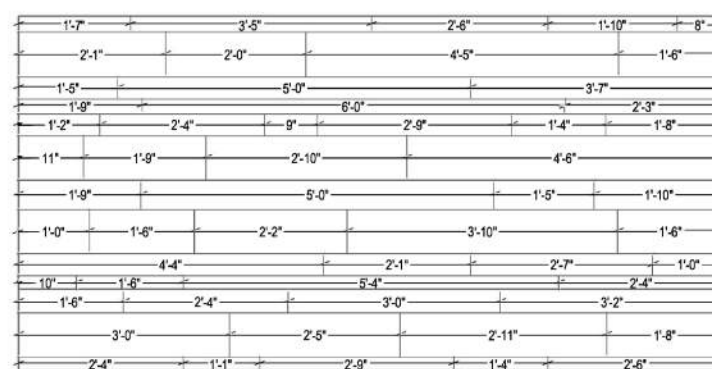
Scale: None



NOTE: Amount of relief above 5 1/2" MSE Panel thickness indicated on elevation above

MSE PANEL C - (PANEL F when Rotated 180°)

Scale: None



NOTE: Dimensions are based on a 5'x10' nominal MSE Panel.
Dimensions can be modified to fit actual panel measurements.

I-69, 3-PANEL, SMOOTH GEOMETRIC, MSE DESIGN

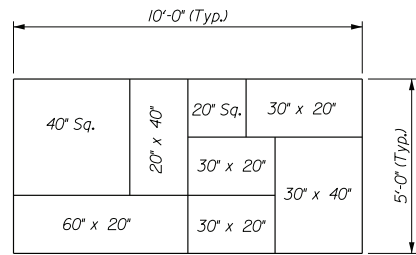


I-69 SECTION 6 CONTRACT 5 PROJECT - CONCEPTUAL AESTHETICS AND LANDSCAPE PLANS

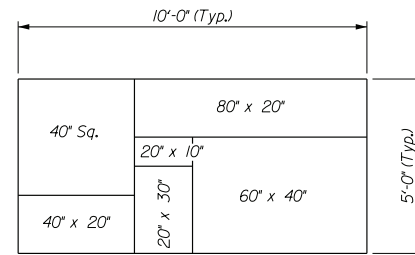
Technical Provision Attachment 6 -1 - ADDENDUM #2 - July 15, 2020

Section 2: BRIDGE AESTHETICS DETAILS

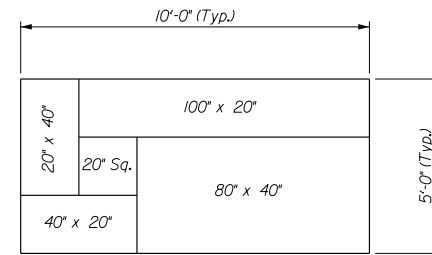
Page 13



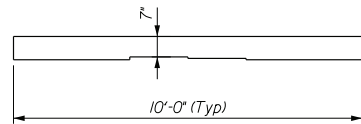
ELEVATION - PANEL A



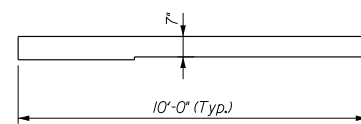
ELEVATION - PANEL B



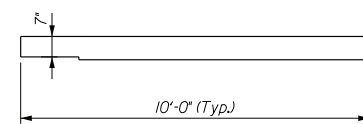
ELEVATION - PANEL C



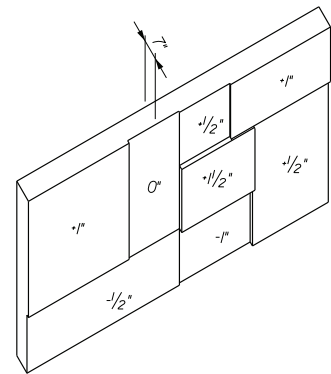
PLAN VIEW - PANEL A



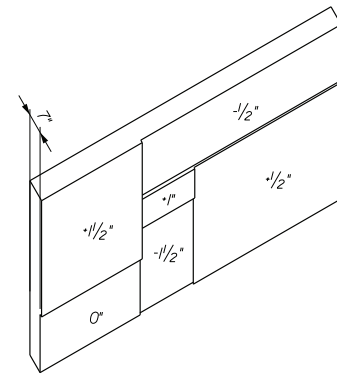
PLAN VIEW - PANEL B



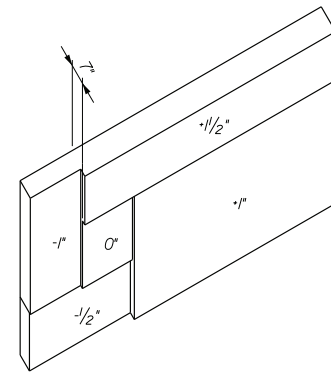
PLAN VIEW - PANEL C



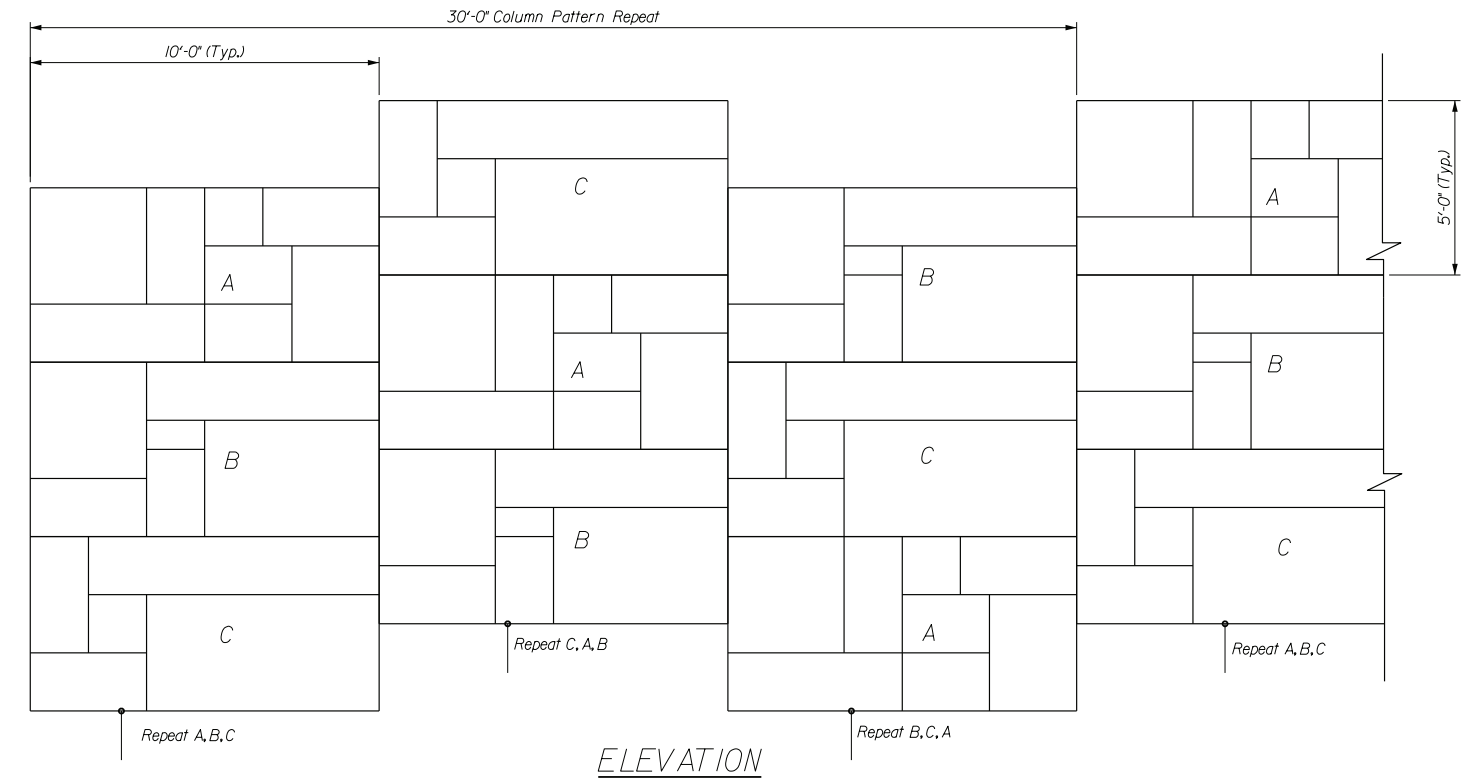
ISOMETRIC VIEW - PANEL A



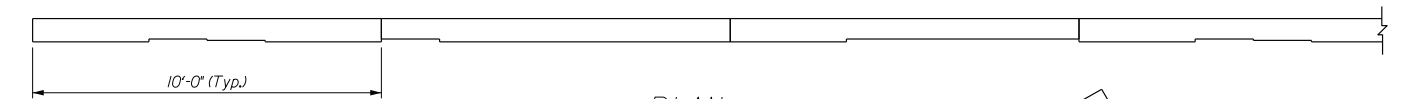
ISOMETRIC VIEW - PANEL B



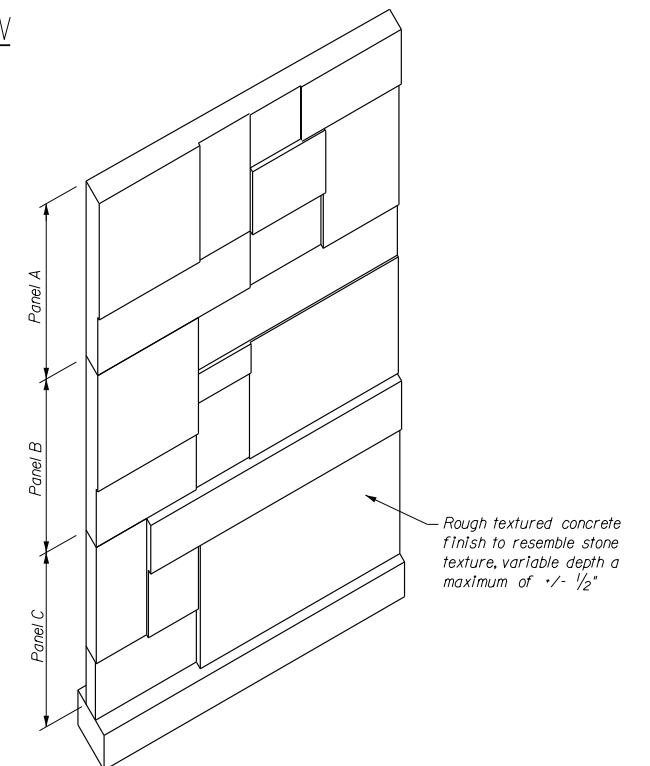
ISOMETRIC VIEW - PANEL C



ELEVATION



PLAN



ISOMETRIC VIEW

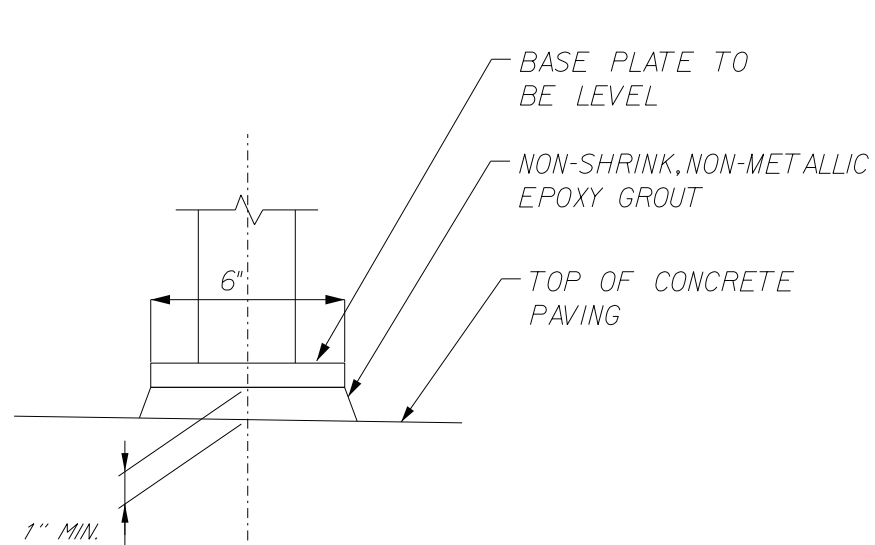
I-465, 3-PANEL, SPLIT-FACE GEOMETRIC, MSE DESIGN



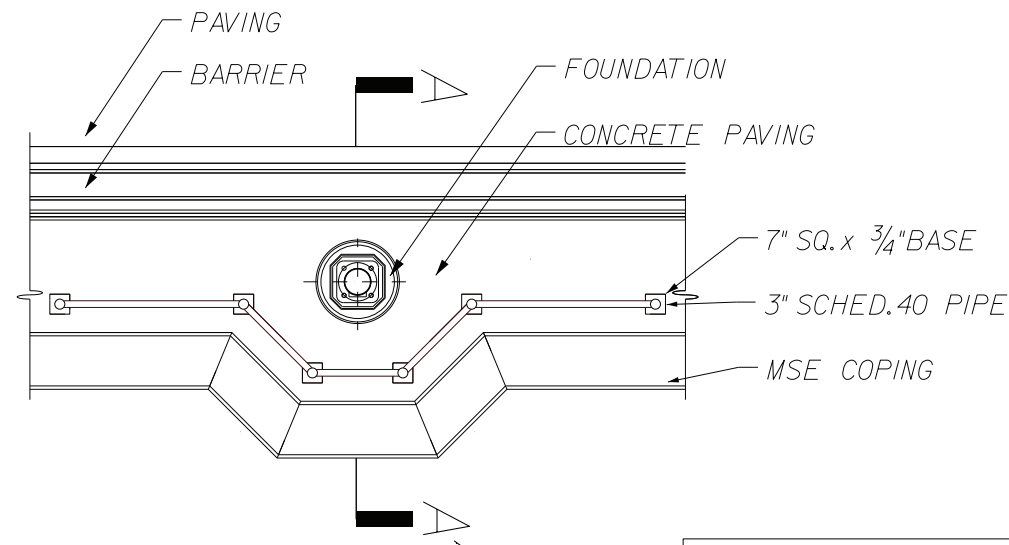
I-69 SECTION 6 CONTRACT 5 PROJECT - CONCEPTUAL AESTHETICS AND LANDSCAPE PLANS

Technical Provision Attachment 6 -1 - ADDENDUM #2 - July 15, 2020

Section 2: BRIDGE AESTHETICS DETAILS



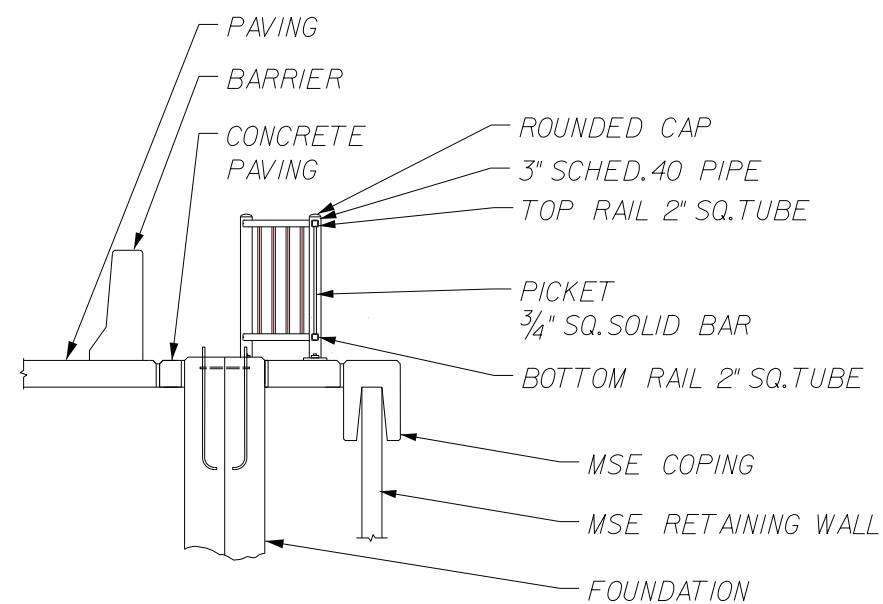
BASE PLATE LEVELING PAD



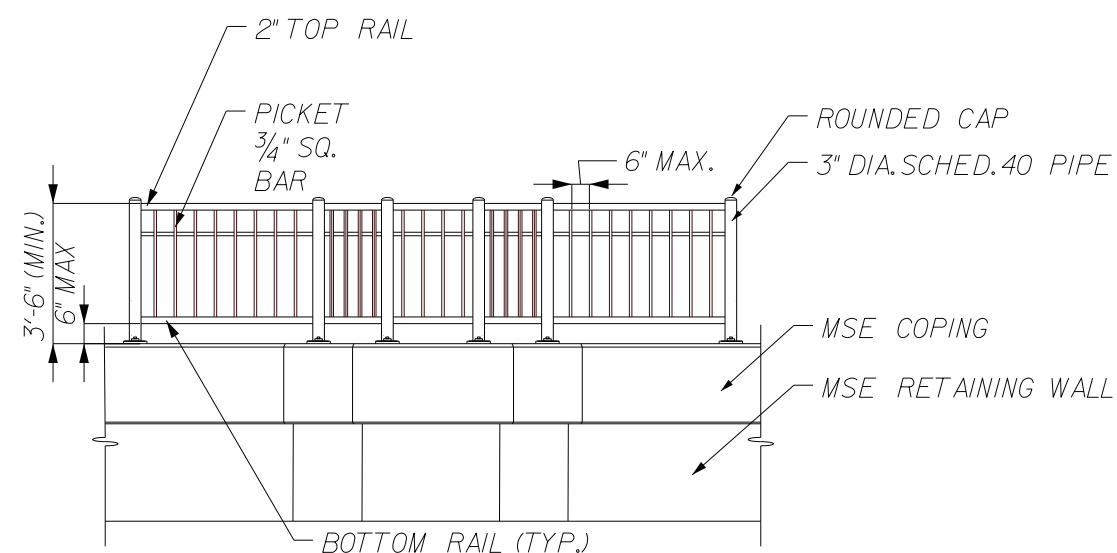
PLAN VIEW

NOTE TO DESIGN-BUILD CONTRACTOR

THESE DETAILS REPRESENT MINIMUM REQUIREMENTS. DESIGN-BUILD CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL DESIGN AND DETAILING ENSURING THE DIMENSIONS AND SIZE OF ALL COMPONENTS SATISFY THE REQUIREMENTS OF THE PROJECT STANDARDS

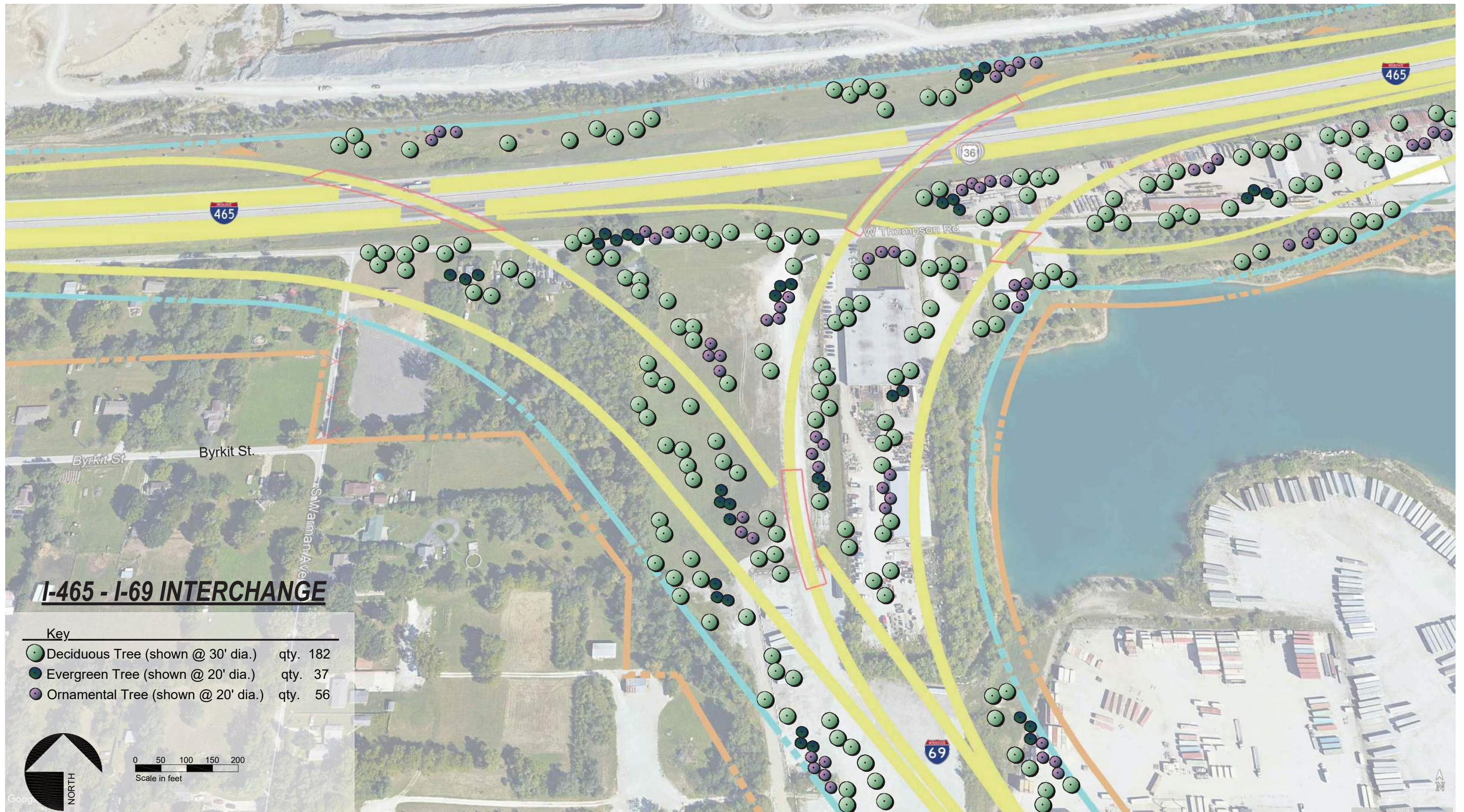


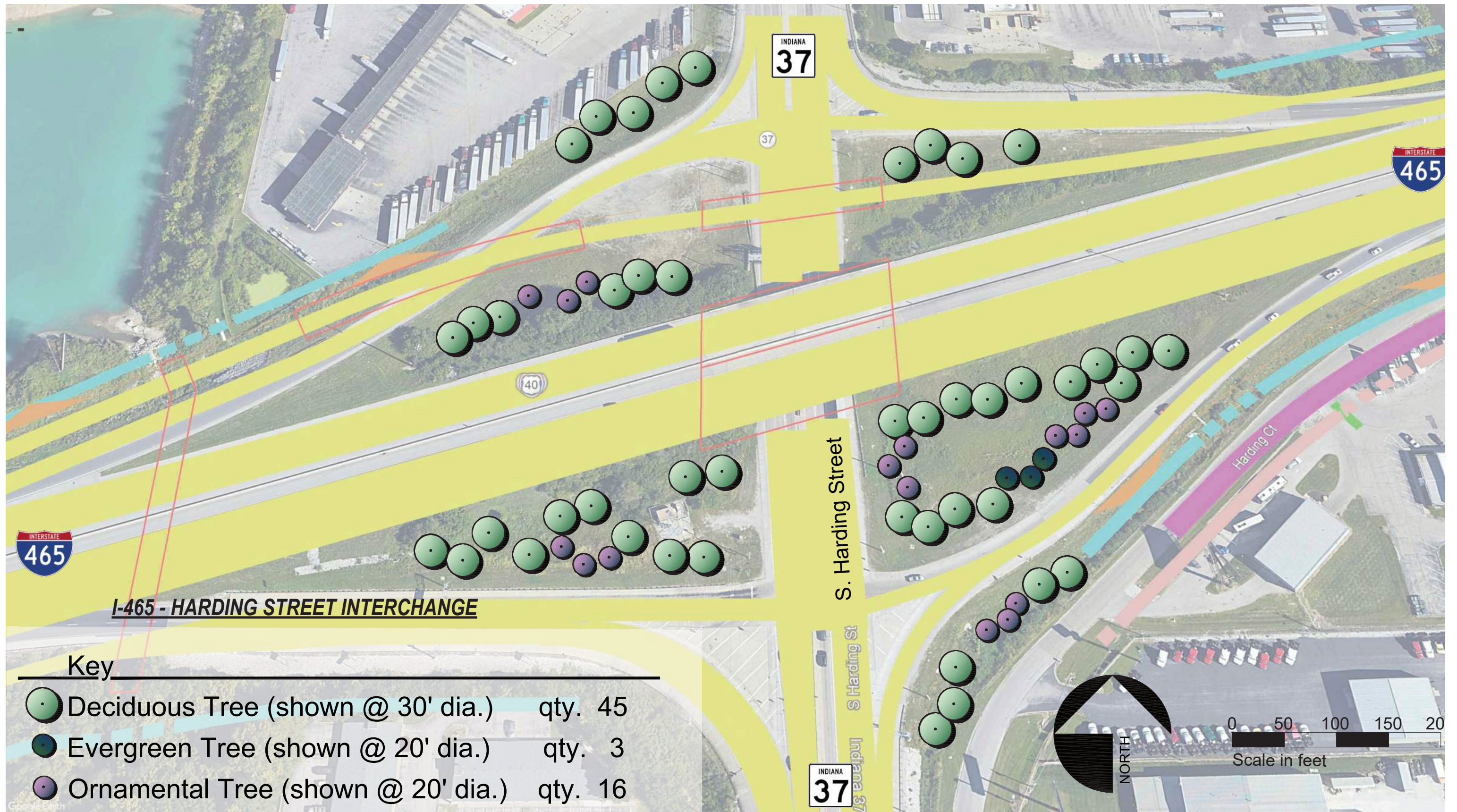
SECTION AA'

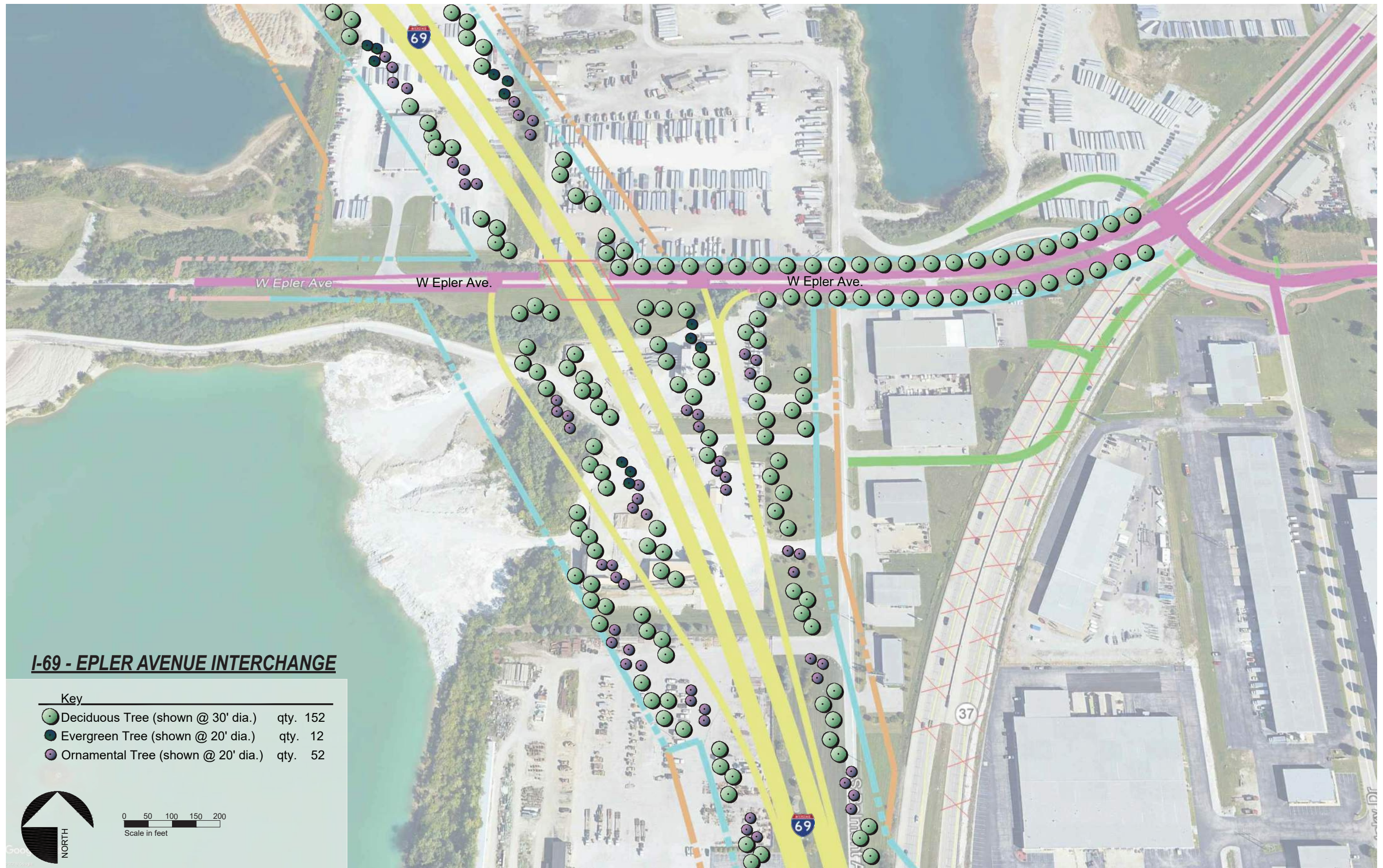


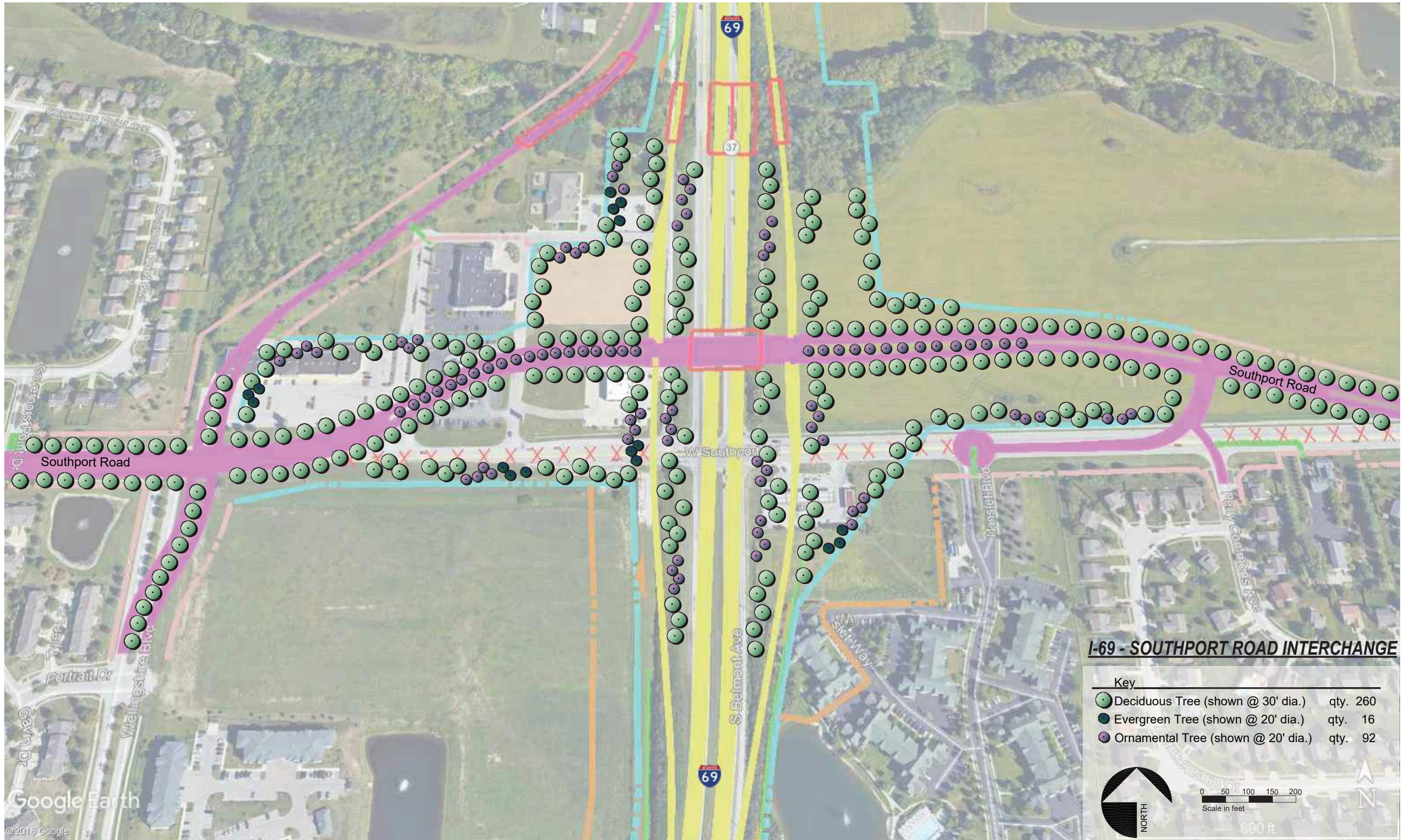
FRONT ELEVATION

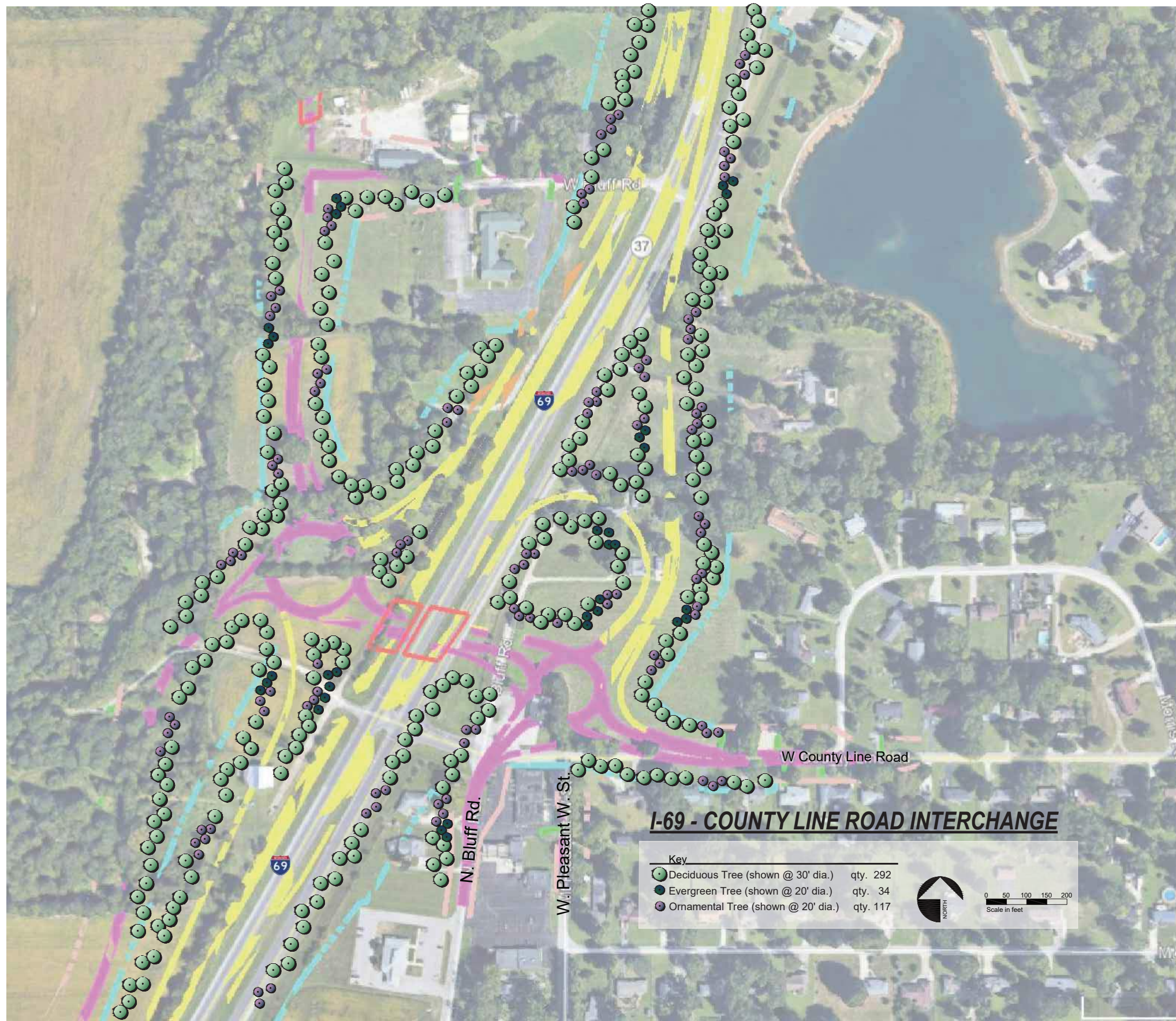
FALL PROTECTION DETAILS FOR STRUCTURES REQUIRING MAINTENANCE MOUNTED ON TOP OF RETAINING WALLS

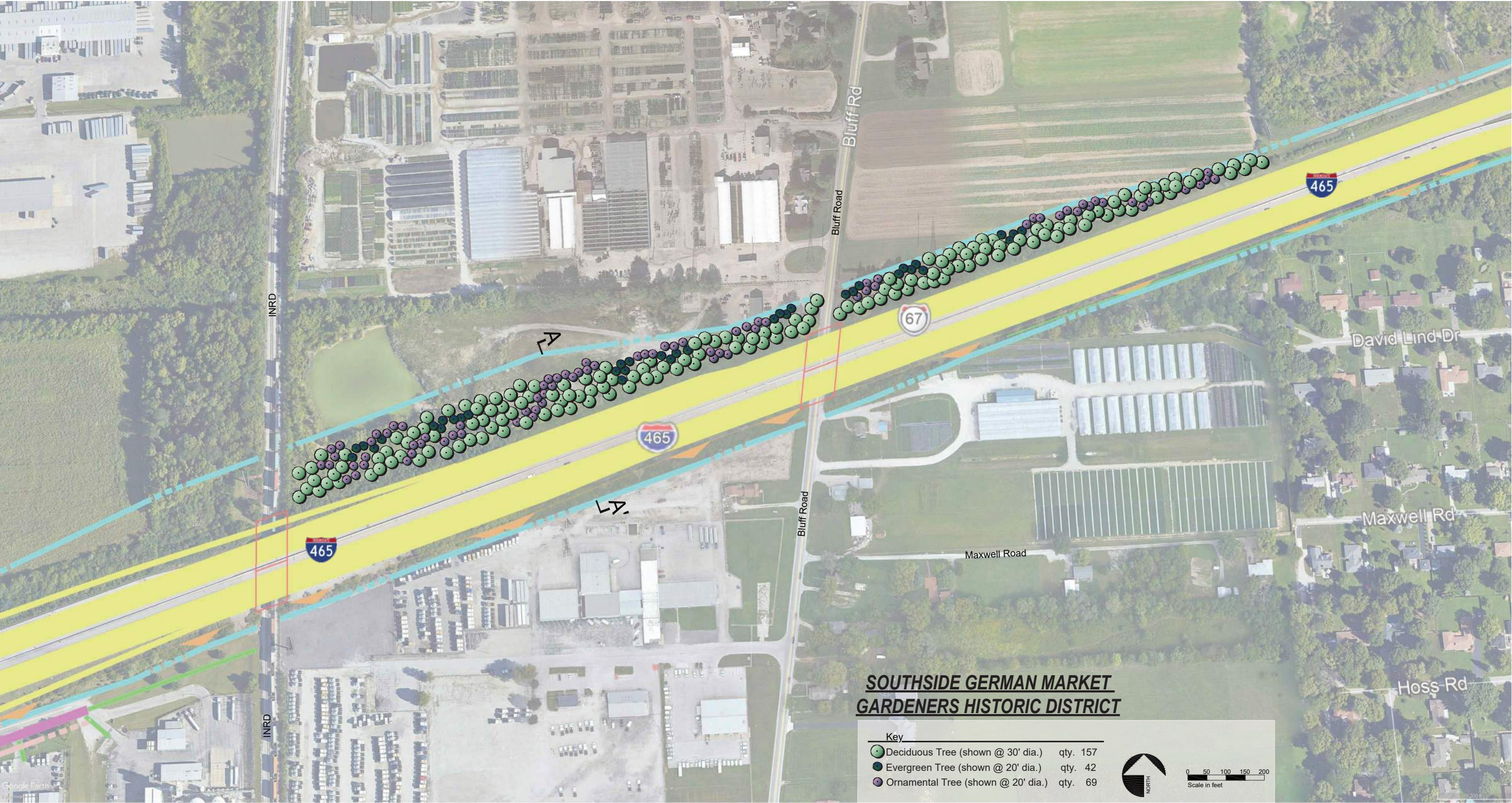


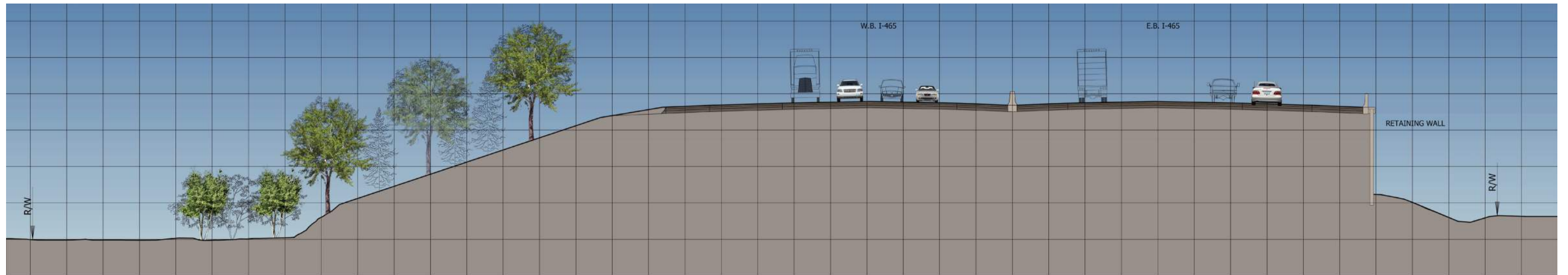












SECTION AA'



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Bruno L. Pigott
Commissioner

Section 401 Water Quality Certification

IDEM Number: 2020-154-49-JBT-A
USACE Number: LRL-2019-945
INDOT DES Number: 1802075
Project Name: I-465 Reconfigure
Authority: 327 IAC 2
Clean Water Act Sections 301, 302, 303, 306, 307, & 401

Date of Issuance: June 1, 2020
Impacts must be completed by: June 1, 2022

Approved:

Brian Wolff, Branch Chief
Surface Water, Operations, and Enforcement
Office of Water Quality

Applicant and Permittee: Indiana Department of Transportation
Attention: Crystal Rehder
100 North Senate Avenue, IGCN 642-ES
Indianapolis, IN 46204

Agent: Parsons
Attention: Thomas Warrner
101 West Ohio Street, Suite 2121
Indianapolis, IN 46204

Project Location: Marion County
Two Sections of Interstate-465:

Section A/B:
From 0.30 mile west of U.S. Highway 31:
(Latitude 39.7, Longitude -86.155)
To Interstate 65:
(Latitude 39.703, Longitude -86.11).

Section C:
From the south end of the Interstate 70 interchange:
(Latitude 39.71, Longitude -86.2645)
To just west of the Mann Road interchange:
(Latitude 39.6927, Longitude -86.243).

Project Description: Addition of travel lanes to Interstate 465.

Total stream impact of 8968 linear feet from:

1. Replacing 871 linear feet of encapsulation with 4567 linear feet of encapsulation.
2. Relocating 7737 linear feet of stream into 7293 linear feet of channel.
3. Installing 689 linear feet of riprap scour protection.

Placement of fill material into 0.9165 acre of emergent wetland, 0.114 acre of scrub/shrub wetland, and 0.022 acre of forested wetland.

Purchase 8097 feet of stream credit and 0.43 acre of wetland credit within the Upper White Service Area from the Indiana Stream and Wetland Mitigation Program to mitigate impacts to aquatic resources.

Purchase 0.917 acre of emergent wetland credit from the Buck Creek Wetland Mitigation Bank.

Isolated wetland impacts associated with the project are being reviewed separately through IC 13-18-22 and IAC 327 17, the state regulated wetland permitting process.

Authorized Impacts

STREAM IMPACT(S)	Length of Impact (linear feet)		
Type of Impact:	Ephemeral	Intermittent	Perennial
Encapsulation	5063	1197	222
Relocation	333	111	
Riprap Scour Protection	360	74	255

WETLAND IMPACT(S)	Area of Impact (acres)			
Type of Impact:	Open Water	Emergent	Scrub/Shrub	Forested
Placement of clean earthen fill, concrete, aggregate, riprap, and fiber optic conduit		0.9165	0.114	0.022

Project Mitigation

MITIGATION BANKS AND IN-LIEU FEE	Stream (Linear Feet)		
Type of Purchase	Ephemeral	Intermittent	Perennial
In-Lieu Fee Credits:	6681	1157	259

MITIGATION BANKS AND IN-LIEU FEE	Wetland (Acres)		
Type of Purchase	Emergent	Scrub/Shrub	Forested
Bank Credits	0.917		
In-Lieu Fee Credits		0.342	0.088

Mitigation Location:

Indiana Stream and Wetland Mitigation Program:
Upper White Service Area

Buck Creek Mitigation Bank: Latitude 40.062 Longitude -85.33

Application Signed: March 2, 2020

Application Received: March 2, 2020

Application Amendments Received: May 20, 2020

Based on available information, it is the judgment of this office that the impacts from the proposed project as outlined by this Section 401 Water Quality Certification and described in your application will comply with the applicable provisions of 327 IAC 2 and Sections 301, 302, 303, 306, and 307 of the Clean Water Act if you comply with the conditions set forth below. Therefore, subject to the following conditions, the Indiana Department of Environmental Management (IDEM) hereby grants Section 401 Water Quality Certification for the project described in your application. Any changes in project design or scope not detailed in the application described above or modified by this Section 401 Water Quality Certification are not authorized.

Failure to comply with the terms and conditions of this Section 401 Water Quality Certification may result in enforcement action against you. If an enforcement action is pursued, you could be assessed up to \$25,000 per day in civil penalties. You may also be subject to criminal liability if it is determined that the Section 401 Water Quality Certification was violated willfully or negligently.

Conditions of the Section 401 Water Quality Certification

1.0 General

- (a) Implement the project as depicted and described in the application for Section 401 Water Quality Certification, application amendments described above, and as amended by this certification.
- (b) Complete all approved discharges no later than two (2) years after the date of issuance of this Section 401 Water Quality Certification. You may request a one (1) year extension to the Section 401 Water Quality Certification by submitting a written request ninety (90) days prior to the deadline stated above. The written request shall contain an account of which discharges and mitigation have been completed and list the reasons an extension is requested.
- (c) Allow the commissioner or an authorized representative of the commissioner (including an authorized contractor), upon the presentation of credentials:
 - (1) to enter your property, including impact and mitigation site(s);
 - (2) to have access to and copy at reasonable times any records that must be kept under the conditions of this certification;
 - (3) to inspect, at reasonable times, any monitoring or operational equipment or method; collection, treatment, pollution management or discharge

facility or device; practices required by this certification; and any mitigation wetland site;

- (4) to sample or monitor any discharge of pollutants or any mitigation site.

2.0 Mitigation

- (a) Provide proof of purchase of 0.917 acre of credit from the Buck Creek Mitigation Bank:
 - (1) Within one (1) year of the date of this authorization.
 - (2) Before authorized impacts to waters of the State.
- (b) Provide to IDEM proof of the purchase of 0.43 acre of in-lieu fee wetland credits and 8097 linear feet of in-lieu fee stream credits in the Upper White Service Area from the Indiana Stream and Wetland Mitigation Program (IN SWMP):
 - (1) Within one (1) year of the date of this authorization.
 - (2) Before authorized impacts to waters of the State.

Be aware credits may not be available at all times. Failure to purchase credits by the required date may result in additional mitigation requirements to compensate for temporal loss.

3.0 Erosion and Sediment Control

- (a) Implement erosion and sediment control measures on the construction site prior to land disturbance to minimize soil from leaving the site or entering a waterbody. Erosion and sediment control measures shall be implemented using an appropriate order of construction (sequencing) relative to the land-disturbing activities associated with the project. Appropriate measures include, but are not limited to, silt fence, diversions, and sediment traps.
- (b) Monitor and maintain erosion control measures and devices regularly, especially after rain events, until all soils disturbed by construction activities have been permanently stabilized.
- (c) Use run-off control measures, including but not limited to diversions and slope drains. These measures are effective for directing and managing run-off to sediment control measures and for preventing direct run-off into waterbodies.
- (d) Install and make appropriate modifications to erosion and sediment control measures based on current site conditions as construction progresses on the site. The Indiana Storm Water Quality Manual or similar guidance documents are available to assist in the selection of measures that are applicable to individual project sites.

- (e) Implement appropriate erosion and sediment control measures for all temporary run-arounds, cofferdams, temporary causeways, temporary crossings, or other such structures that are to be constructed within any waters of the state. Minimize disturbance to riparian areas when constructing these structures.
- (f) Cut and fill slopes located adjacent to wetlands and streams (including encapsulated streams) or that directly discharge to these aquatic features are to be stabilized using rapid/incremental seeding or other appropriate stabilization measures.
- (g) Stabilize and re-vegetate disturbed soils as final grades are achieved. Initiation of stabilization must occur immediately or at a minimum within the requirements of a construction site run-off permit after work is completed. Use a mixture of herbaceous species beneficial for wildlife or an emergent wetland seed mix wherever possible and appropriate. Tall fescue may only be planted in ditch bottoms and ditch side slopes and must be a low endophyte seed mix.
- (h) As work progresses, areas void of protective ground cover shall be re-vegetated. Areas that are to be re-vegetated shall use seeding and anchored mulch. **If alternative methods are required to ensure stabilization, erosion control blankets may be used that are biodegradable, that use loose-woven/leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation).**

Mulch must be anchored. Anchoring shall be appropriate for the site characteristics such as slope, slope length, and concentrated flows. **Anchoring methods may not include loose netting over straw, but can range from crimping of straw, erosion control blankets as specified above that minimize wildlife entrapment, or net free blankets.** Tackifiers with mulch and hydro-mulch are acceptable and shall be applied to the manufacturer specifications.

4.0 Construction

- (a) Do not clear trees within the project boundaries during April 1 through September 30 in order to protect any habitat suitable for the federally endangered Indiana Bat (*Myotis sodalis*) and the federally threatened Northern Long Eared Bat (*Myotis septentrionalis*) unless a waiver has been issued by the US Fish and Wildlife Service.
- (b) Clearly mark wetlands and streams that are to remain undisturbed on the project site.

- (c) Ensure permanent in-stream structures, including but not limited to culverts and other stream encapsulations, are embedded and sized appropriately so as not to impede surface flows or create abnormal impediments to aquatic life.
- (d) Restrict channel work and vegetation clearing to the minimum necessary for installation of any structures.
- (e) Obtain prior approval from IDEM for operation of construction equipment or the placement of temporary run-arounds, temporary cofferdams, temporary causeways, temporary crossings, or other related structures within any water of the state, unless specifically stated, depicted, or detailed in the aforementioned correspondence and project plans.
- (f) Construct temporary run-arounds, temporary cofferdams, temporary causeways, temporary crossings, or other such structures of non-erodible materials.
- (g) Construct temporary crossings in a manner that does not impede surface flows for an approximate two (2) year (Q2) flood event.
- (h) Stream pump-around operations are to be installed in accordance with the plans and the in-stream component is to be constructed of non-sediment producing materials. The discharge at the outlet shall not cause erosion of the stream bottom and banks.
- (i) Cofferdam dewatering activities must be directed to an appropriate sediment control measure or a combination of measures prior to discharging into a water of the state to minimize the discharge of sediment-laden water.
- (j) Operate machinery on land above the ordinary high water mark and in a manner that minimizes disturbance to the banks of the watercourse.
- (k) Deposit any dredged material in a contained upland (non-wetland) disposal area to prevent sediment run-off to any waterbody.
- (l) Temporary structures constructed in streams are to be created such that near normal stream flows are maintained.
- (m) Temporary structures must be completely removed upon completion of the project and the affected areas restored to pre-construction contours, grades, and vegetative conditions.
- (n) Channels are to be stabilized before releasing stream flows into the channel.

Other Applicable Permits

If the land disturbance for the overall project will disturb one (1) acre or more, a construction site run-off general permit (327 IAC 15-5) is required for the project. Permit coverage must be obtained prior to the initiation of land-disturbing activities. Information related to obtaining permit coverage is available at www.in.gov/idem/stormwater or by contacting the IDEM, Stormwater Program at 317-233-1864 or via email at Stormwat@idem.IN.gov.

This certification does not relieve you of the responsibility of obtaining any other permits or authorizations that may be required for this project or related activities from IDEM or any other agency or person. You may wish to contact the Indiana Department of Natural Resources at 317-232-4160 (toll free at 877-928-3755) concerning the possible requirement of natural freshwater lake or floodway permits.

This certification does not:

- (1) Authorize impacts or activities outside the scope of this certification;
- (2) Authorize any injury to persons or private property or invasion of other private rights, or any infringement of federal, state or local laws or regulations;
- (3) Convey any property rights of any sort, or any exclusive privileges;
- (4) Preempt any duty to obtain federal, state or local permits or authorizations required by law for the execution of the project or related activities; or
- (5) Authorize changes in the plan design detailed in the application.

Notice of Right to Administrative Review (Permits)

If you wish to challenge this permit, you must file a Petition for Administrative Review with the Office of Environmental Adjudication (OEA), and serve a copy of the petition upon IDEM. The requirements for filing a Petition for Administrative Review are found in IC 4-21.5-3-7, IC 13-15-6-1 and 315 IAC 1-3-2. A summary of the requirements of these laws is provided below.

A Petition for Administrative Review must be filed with the Office of Environmental Adjudication (OEA) within fifteen (15) days of the issuance of this notice (eighteen (18) days if you received this notice by U.S. Mail), and a copy must be served upon IDEM. Addresses are:

Director
Office of Environmental Adjudication
Indiana Government Center North
100 North Senate Avenue, Room N103
Indianapolis, Indiana 46204

Commissioner
Indiana Dept. of Environmental Management
Indiana Government Center North
100 North Senate Avenue, Room 1301
Indianapolis, Indiana 46204

The petition must contain the following information:

- (a) The name, address and telephone number of each petitioner.
- (b) A description of each petitioner's interest in the permit.
- (c) A statement of facts demonstrating that each petitioner is:
 - (1) a person to whom the order is directed;
 - (2) aggrieved or adversely affected by the permit; or
 - (3) entitled to administrative review under any law.
- (d) The reasons for the request for administrative review.
- (e) The particular legal issues proposed for review.
- (f) The alleged environmental concerns or technical deficiencies of the permit.
- (g) The permit terms and conditions that the petitioner believes would be appropriate and would comply with the law.
- (h) The identity of any persons represented by the petitioner.
- (i) The identity of the person against whom administrative review is sought.
- (j) A copy of the permit that is the basis of the petition.
- (k) A statement identifying petitioner's attorney or other representative, if any.

Failure to meet the requirements of the law with respect to a Petition for Administrative Review may result in a waiver of your right to seek administrative review of the permit. Examples are:

- (a) Failure to file a Petition by the applicable deadline;
- (b) Failure to serve a copy of the Petition upon IDEM when it is filed; or
- (c) Failure to include the information required by law.

If you seek to have a permit stayed during the administrative review, you may need to file a Petition for a Stay of Effectiveness. The specific requirements for such a Petition can be found in 315 IAC 1-3-2 and 315 IAC 1-3-2.1.

Pursuant to IC 4-21.5-3-17, OEA will provide all parties with notice of any pre-hearing conferences, preliminary hearings, hearings, stays, or orders disposing of the review of this action. If you are entitled to notice under IC 4-21.5-3-5(b) and would like to obtain notices of any pre-hearing conferences, preliminary hearings, hearings, stays, or orders disposing of the review of this action without intervening in the proceeding you must submit a written request to OEA at the address above.

If you have procedural or scheduling questions regarding your Petition for Administrative Review, additional information on the review process is available at the website of the Office of Environmental Adjudication at <http://www.in.gov/oea>.

If you have any questions about this certification, please contact J. Turner, Project Manager, by email at JTurner2@IDEM.IN.Gov or by telephone at 317-234-6352.

cc: Indiana Stream and Wetland Mitigation Program (Electronic)



State of Indiana
Department of Natural Resources



CERTIFICATE OF APPROVAL

Application #: FW-30218-0

This Certificate of Approval is a Permit for Construction under the authority of the Indiana Flood Control Act, IC 14-28-1 with 312 IAC 10 as administered by the Department of Natural Resources.

Approval Issued To: Indiana Department of Transportation, Crystal Rehder, 100 North Senate Avenue, Room N642-ES, Indianapolis, IN 46204

Approval Issued By:

Mail Date: 6/26/2020

Markita Shepherdson

Markita Shepherdson, CFM, Division of Water

Permit Effective Date: 07/14/2020

Permit Expiration Date: 06/27/2025

Pursuant to 312 IAC 2-5-1, this Permit becomes Effective eighteen (18) days from the Mail Date to provide a stay period for a Petition for Administrative Review with the Indiana Natural Resources Commission, Division of Hearings. Initiating construction authorized in this Permit prior to the Permit Effective Date constitutes a violation. This Permit is only valid until the Permit Expiration Date.

This Permit may be renewed one (1) time if a written request is received at the DNR, Division of Water, prior to the Permit Expiration Date.

PROJECT INFORMATION:

Waterbody: Haueisen Ditch

County: Marion

Project Description Narrative: The existing 310' long by 27' wide three cell culvert will be removed and replaced with a 380' long by 36' wide three-sided structure. Riprap will be placed along the walls of the new structure to function as scour protection. Riprap along the west wall of the new structure will measure approximately 373' long by 5' wide by 1.5' deep with a wing on the south side of the structure measuring approximately 10' long by 12' wide by 1.5' deep. Riprap along the east wall will measure approximately 383' long by 5' wide by 1.5' deep with a wing wall on the south side of the structure measuring approximately 13' long by 9' wide by 1.5' deep. (INDOT Des. No. 1901817)

Project Location: At the I-465 crossing at Indianapolis

PERMIT CONDITIONS:

This Certificate of Approval is valid only if the construction project is in compliance with all Conditions in this Permit.

DNR PROJECT SPECIFIC PERMIT CONDITIONS

1) Implement the mitigation plan received at the Division of Water on February 4, 2020, by the end of spring 2022.

- 2) Yearly status reports must be submitted beginning from the date of permit approval until the mitigation site has been completely installed. Status reports must be submitted to the Central Region Environmental Biologist at the Division of Fish and Wildlife, 402 W. Washington St., RM W273, Indianapolis, IN 46204-2781 by December 31 of each year. Once installed, the mitigation site must be monitored for the survival of the plantings for a minimum of 3 years and a report submitted to the biologist by December 31 of each year. Monitoring shall occur by the end of each growing season, with approximately 12 months between each monitoring event. The report must include appropriate pictures of vegetative plantings, and a narrative that describes the activity accomplished to date, acres planted, number planted, list of species planted on site, and estimated survival (volunteers shall not be included in survival counts, only planted specimens). If the mitigation site is not successful after the monitoring period, the permit will be considered in violation, and another plan must be submitted for approval.
- 3) The replacement habitat areas must have a minimum survival of 75% of planted material at the end of the monitoring period or additional trees and shrubs must be installed to meet the minimum survival; if the site fails to meet success in any year, replanting shall occur prior to the next monitoring period; an additional year of monitoring shall be required for each year of additional planting.
- 4) Place a restrictive covenant (developed in coordination with a DNR biologist) on the mitigation site property within 60 days of project initiation to protect the mitigation site from any future disturbance; a copy of the covenant must be provided to the Central Region Environmental Biologist by mailing it to the Division of Water, 402 W. Washington St, Room W264, Indianapolis, IN 46204-2641.
- 5) The species approved by the DNR in a mitigation plan or a planting plan become part of the permit. If modifications become necessary to the approved species, a Division of Fish and Wildlife biologist must approve all changes.
- 6) Revegetate all bare and disturbed areas that are not currently mowed and maintained with a mixture of grasses, sedges, and wildflowers native to Central Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion; turf-type grasses (including low-endophyte, friendly endophyte, and endophyte free tall fescue but excluding all other varieties of tall fescue) may be used in currently mowed areas only.
- 7) Minimize and contain within the project limits inchannel disturbance and the clearing of trees and brush.
- 8) Do not cut any trees suitable for Indiana bat or Northern Long-eared bat roosting (greater than 5 inches dbh, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30.
- 9) Use minimum average 6 inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids.
- 10) Post "Do Not Mow or Spray" signs or an approved equal along the boundary of the proposed mitigation area(s).
- 11) Do not use broken concrete as riprap.
- 12) Underlay the riprap with a bedding layer of well graded aggregate or a geotextile to prevent piping of soil underneath the riprap.
- 13) Minimize the movement of resuspended bottom sediment from the immediate project area.
- 14) Do not deposit or allow construction/demolition materials or debris to fall or otherwise enter the waterway.
- 15) Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
- 16) Seed and protect all disturbed streambanks and slopes not protected by other methods that are 3:1 or steeper with erosion control blankets that are heavy-duty, biodegradable, and net free or that use loose-woven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation); seed and apply mulch on all other disturbed areas.
- 17) Except for the material used as backfill as shown on the plans submitted for the permit application, place all excavated material landward of the floodway*.
- 18) All work must conform with the existing bank at the upstream and downstream limits of the project site.
- 19) All riprap placed for bank stabilization must conform to the bank.
- 20) Upon completion of the project, remove all construction debris from the floodway*.
- 21) Do not allow the lowest portion of the new bridge to extend below the lowest portion of the existing bridge.
- 22) Anchor the bridge deck to prevent dislodging and/or flotation during high water events.
- 23) Size and/or anchor the riprap to resist displacement by current or wave action.
- 24) Issuance of this Certificate of Approval does not constitute approval of any temporary causeways, coffer dams, runarounds, access bridges or borrow areas associated with the proposed bridge construction. A separate written approval must be obtained from the DNR, Division of Water for these types of projects prior to beginning any work within the floodway*.
- 25) Keep the bridge waterway opening free of debris and sediment at all times.
- 26) * Note: For regulatory purposes, the floodway is defined as the area within the dashed lines on the attached Floodway Map.

DNR PROJECT GENERAL PERMIT CONDITIONS

- 1) Any modifications or additional construction beyond what was shown on plans received at the Division of Water shall require an additional review and approval from the Department of Natural Resources.
- 2) This Permit must be posted and maintained at the project site until the project is completed
- 3) This Permit shall not be assigned or transferred without the prior written approval of the Department of Natural Resources.
- 4) If any prehistoric or historic archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and 29) requires that the discovery must be reported to the Department of Natural Resources within two (2) business days.
- 5) This Permit may be revoked by the Department of Natural Resources for violation of any condition or applicable statute or rule.
- 6) The Department of Natural Resources shall have the right to enter upon the site of the permitted activity for the purpose of inspecting the work authorized under this Permit.

Certificate of Approval Attachments: HaueisenDitchFW.PDF

RIGHT TO ADMINISTRATIVE REVIEW:

A party may appeal this Department of Natural Resources Action through the administrative review procedures found in the Administrative Orders and Procedures Act, IC 4-21.5, and the rules promulgated thereunder 312 IAC 3-1. If an appeal is filed, the final agency determination will be made by the Natural Resources Commission following a legal proceeding conducted before an Administrative Law Judge. The Department of Natural Resources will be represented by legal counsel at all stages of administrative review.

In order to obtain an administrative review, a written petition must be filed with the Division of Hearings within 18 days of the Mail Date of the Action. The petition must contain specific reasons for the appeal and indicate the portion or portions of the project to which the appeal pertains. The petition must be addressed to the Division of Hearings, Indiana Government Center North, Room N103, 100 North Senate Avenue, Indianapolis, Indiana 46204

SERVICE LIST:

Applicant(s):

Indiana Department of Transportation, Crystal Rehder, 100 North Senate Avenue, Room N642-ES, Indianapolis, IN 46204

Agent(s):

HNTB Corporation, Dan Logsdon, 111 Monument Circle, Suite 1200, Indianapolis, IN 46204

Adjacent Landowners and Interested Parties:

Waffle House Incorporated, PO Box 6450, Norcross, GA 30091
Heritage Aggregates LLC, 5400 West 86th Street, Indianapolis, IN 46268
CFJ Properties, PO Box 54470, Lexington, KY 40555
J&E Tire Realty LLC, 4835 South Harding Street, Indianapolis, IN 46217
Raymond Realty LLC, 4949 South Harding Street, Indianapolis, IN 46217
Petro Hotels Inc, 4909 Knights Way, Indianapolis, IN 46217
Arogas Inc, PO Box 54470, Lexington, KY 40555
Pilot Travel Centers LLC, PO Box 54470, Lexington, KY 40555
AKM Holdings Inc, 8800 Bryon Commerce Drive SW, Carrollton, MI 49315
Lake Street Properties LP, 32842 North River Road, Marineland, IL 60048

Courtesy Notification:

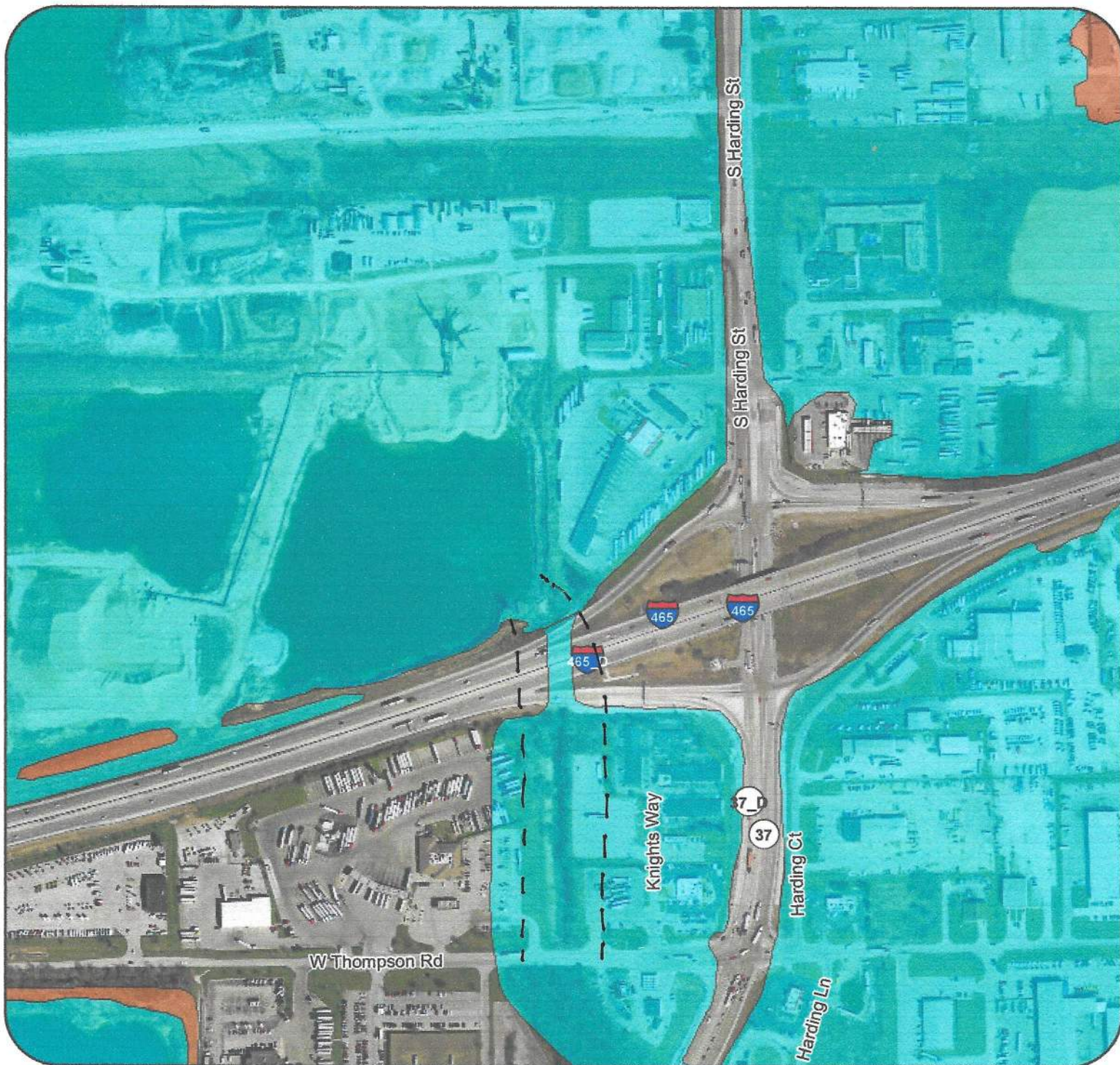
US Army Corps of Engineers, Louisville District, PO Box 59, Louisville, KY 40201

Marion County SWCD, 1200 South Madison Avenue, Suite 200, Indianapolis, IN 46225
Department of Business and Neighborhood Services, Donna Price, 1200 South Madison Avenue, Suite 100,
Indianapolis, IN 46225
Indianapolis Department of Public Works, John Oakley, 1200 South Madison Avenue, Suite 200, Indianapolis, IN 46225
Indiana Department of Natural Resources, Division of Law Enforcement District 6 Headquarters 11 Durbin Street, Camp
Atterbury, Edinburgh, IN 46124

ADDITIONAL PERMITTING AGENCIES:

This is not a waiver of any local ordinance or other state or federal law and does not relieve the permittee of any liability for the effects which the project may have upon the safety of the life or property of others.

This does not relieve the permittee of the responsibility of obtaining permits, approvals, easements, etc. under other regulatory programs administered by, but not limited to, the U.S. Army Corps of Engineers, County Drainage Board, Indiana Department of Environmental Management and local, city, or county floodplain management, planning or zoning commissions.



The Special Flood Hazard Area was derived from the digital representation of FEMA Flood Insurance Rate Maps (FIRM). While this map is provided for information, the FIRMs as published by FEMA are the authoritative documents for the National Flood Insurance Program.

Copies of those maps can be found at <http://msc.fema.gov>

Map Source: FIRM

File Number: FW-30218

Note

This map does not reflect changes or amendments which may have been made subsequent to the effective date

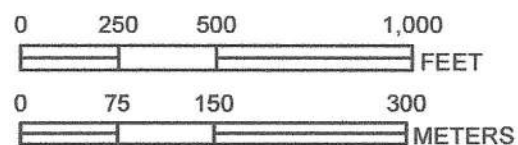


Legend

- Special Flood Hazard Area
- 0.2 Percent Annual Chance Flood Hazard
- Community Boundaries



MAP SCALE 1" = 500'





DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, LOUISVILLE DISTRICT
INDIANAPOLIS REGULATORY OFFICE
8902 OTIS AVENUE, SUITE S106B
INDIANAPOLIS, IN 46216

June 24, 2020

Regulatory Division
North Branch
ID No. LRL-2019-945-dds

Ms. Crystal Rehder
Indiana Department of Transportation
100 North Senate Avenue, Room N642
Indianapolis, IN 46204

Dear Ms. Rehder:

Enclosed is Department of the Army (DA) Permit Number LRL-2019-945 authorizing the plan to construct a reconfiguration of I465 at two separate and complete crossings of waters of the U.S. in Indianapolis, Marion County, Indiana (Des. No. 1802075). Also enclosed is ENG Form 4336, "Notice of Authorization," which must be displayed at the construction site throughout construction.

Should any modification of the plans become necessary for any reason, approval from the District Engineer must be received prior to the start of the work. Copies of this letter will be sent to the appropriate coordinating agencies (see enclosure for addresses).

Sincerely,

A handwritten signature in black ink, appearing to read "Duda Snyder", is written over a horizontal line.

Deborah Duda Snyder
Project Manager
Indianapolis Regulatory Office

Enclosures

ADDRESSES FOR COORDINATING AGENCIES

Mr. David Schulenberg
USEPA, Region V
Wetlands Regulatory Unit
77 West Jackson Boulevard
Chicago, IL 60604

Mr. Scott Pruitt
U.S. Fish and Wildlife Service
620 South Walker Street
Bloomington, IN 47403-2121

Mr. Randy Braun
Indiana Department of Environmental Management
Office of Water Quality
100 North Senate Avenue
Indianapolis, IN 46204-6015

Ms. Christie Kiefer
Division of Fish and Wildlife
Department of Natural Resources
402 West Washington Street, Room 273
Indianapolis, IN 46204

Mr. Mike Neyer
Division of Water
Indiana Department of Natural Resources
402 West Washington Street, Room W264
Indianapolis, IN 46204

Ms. Beth McCord
Division of Historic Preservation
and Archaeology
402 West Washington Street, W274
Indianapolis, IN 46204-2739



This notice of authorization must be conspicuously displayed at the site of work.

United States Army Corps of Engineers JUNE 24, 2020

A permit to: discharge 2,051 cubic yards (cys) of fill material below the Ordinary High Water mark (OHW) of 6,218 linear feet of Lick Creek and ephemeral and intermittent unnamed tributaries (UNT) to Lick Creek and State Ditch. In addition, 1,876 cys of fill material would be discharged into 0.227 acre of adjacent emergent wetlands to widen I465 at two separate and complete crossings.

At: Lick Creek, UNTs 4, 5, and 6 Lick Creek, UNTs 1, 2, 3, 4, and 5 State Ditch, emergent wetlands 18, 36, and 40, scrub-shrub wetlands 17 and 20, I465 between I65 and South East Street and between Mann Road and I70, Indianapolis, Marion County, Indiana (Latitude 39.698372 North/ 86.138490 Longitude West)

Has been issued to: INDIANA DEPARTMENT OF TRANSPORTATION

Address of permittee: 100 NORTH SENATE AVENUE, ROOM N642, INDIANAPOLIS, IN 46204

Permit No. LRL-2019-945

**Antoinette Gant
Colonel, Corps of Engineers
Commanding**

BY: _____
**Greg McKay
Chief, North Branch
Regulatory Division**

DEPARTMENT OF THE ARMY PERMIT

Permittee: Indiana Department of Transportation

Permit Number: LRL-2019-945

Issuing Office: U.S. Army Engineer District, Louisville

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: To discharge 2,051 cubic yards (cys) of fill material below the Ordinary High Water mark (OHW) of 6,218 linear feet of Lick Creek and ephemeral and intermittent unnamed tributaries (UNT) to Lick Creek and State Ditch. In addition, 1,876 cys of fill material would be discharged into 0.227 acre of adjacent emergent wetlands to widen I465 at two separate and complete crossings. The fill material would consist of clean earthen fill, limestone riprap, and concrete.

Project Location: The project is located on Lick Creek, UNTs 4, 5, and 6 Lick Creek, UNTs 1, 2, 3, 4, and 5 State Ditch, emergent wetlands 18, 36, and 40, scrub-shrub wetlands 17 and 20, I465 between I65 and South East Street and between Mann Road and I70, Indianapolis, Marion County, Indiana (Latitude 39.698372 North/ Longitude 86.138490 West)

General Conditions:

1. The time limit for completing the authorized activity ends on **July 1, 2025**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification from this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished with the terms and conditions of your permit.

Special Conditions:

1. The permittee shall provide receipt of payment from the Indiana Department of Natural Resources (IDNR) Stream and Wetland Mitigation Program for the purchase of 6,962 linear feet of stream credits (consisting of 5,602 linear feet

of ephemeral stream credits and 1,360 linear feet of intermittent stream credits) and 0.27 acre of scrub-shrub wetland credits. These credits must be purchased prior to the discharge of fill into “waters of the United States”, as authorized by this permit. Please note that the cost per credit is subject to change and may increase. Inquiries regarding credit purchase may be made directly to IDNR by email at: inswmp-inquiry@dnr.in.gov, or in writing at: Indiana Department of Natural Resources, Division of Land Acquisition, 402 W. Washington Street, W255A, Indianapolis, Indiana, 46204.

2. The permittee shall provide receipt of payment from the Buck Creek Wetland Mitigation Site for the purchase of 0.11 acre of wetland credits. These credits must be purchased prior to the discharge of fill into “waters of the United States”, as authorized by this permit. Please note that the cost per credit is subject to change and may increase. Inquiries regarding credit purchase may be made directly to the bank sponsor by calling Mr. Linden Graber at (618) 281-2232, by email at: Linden@mitigationholdings.com, or in writing at: Mitigation Investment Holdings, 248 Southwoods Center, Columbia, IL 62236.

Further Information:

1. Congressional Authorities. You have been authorized to undertake the activity described above pursuant to:
 - () Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
 - (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).
 - () Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).
2. Limits of this authorization.
 - a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
 - b. This permit does not grant any property rights or exclusive privileges.
 - c. This permit does not authorize any injury to the property or rights of others.
 - d. This permit does not authorize interference with any existing or proposed Federal project.
3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
 - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
 - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
 - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.
 - e. Damage claims associated with any future modification, suspension, or revocation of this permit.
4. Reliance on Applicant's Data. The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
 - a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measure ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give you favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

Sandra Bowman

(PERMITTEE)

6/24/2020

(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

Antoinette Gant
Colonel, Corps of Engineers
Commanding

6/24/2020

(DATE)

Greg McKay

BY: Greg McKay
Chief, North Branch
Regulatory Division

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

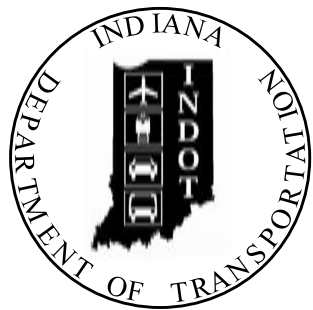
(TRANSFeree)

(DATE)

PROJECT	DESIGNATION
1802075	1802075
CONTRACT	BRIDGE FILE
R-41536	See Bridge Plans

KIN DES. NUMBERS	DESIGNATION	TYPE
1901612	CV 1465-049-00.27L	TBD
1901612	CV 1465-049-00.30	TBD
1901612	CV 1465-049-01.47	TBD
1901612	CV 1465-049-01.90	TBD
1901612	CV 1465-049-01.97	TBD
1901612	CV 1465-049-02.05	TBD
1901612	CV 1465-049-08.45	TBD
1802105	Project A	
1802106	Project B	
1802107	Project C	
1900744	US 31 over I-465	
1900748	I-465 EBL over Lick Creek	
1900749	I-465 WBL over Lick Creek	
1900750	Mooreville Road Bypass over I-465	
1900757	Madison Avenue over I-465	
1900758	Carson Avenue over I-465	
1901390	I-465 over McFarland Creek	
1900769	Traffic: Signing, Markings, Lighting, ITS	

INDIANA DEPARTMENT OF TRANSPORTATION



ROAD PLANS

ROUTE: I-465 FROM: RP 0+0.273 TO: RP 9+0.02

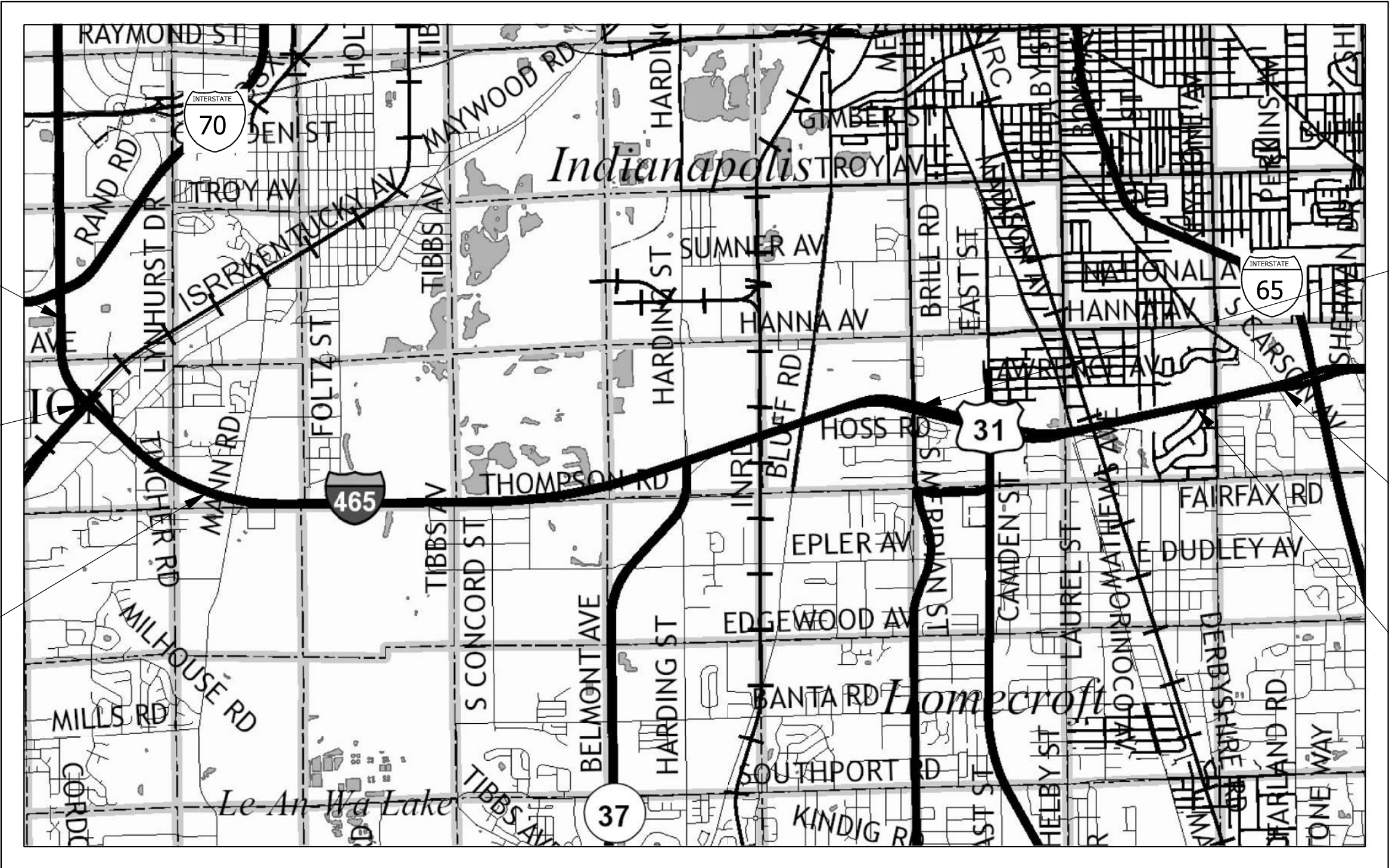
PROJECT NO. 1802075 P.E.
1802075 CONST.

Added Travel Lanes on I-465 from I-70 to Mann Road and US 31 to I-65,
located in Township 15N, Range 2E, Sections 25, & 36,
Township 15N, Range 3E, Sections 31, 35, & 36,
Township 15N, Range 4E, Sections 31, & 32,
in Perry and Decatur Townships, Marion County, Indiana.

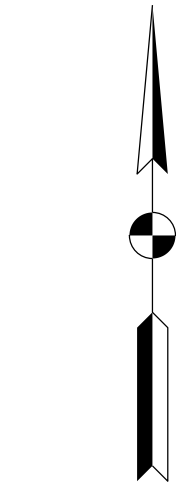
Begin Project
Sta. 59+82.70 "PR-I465"
RP 9+0.02

Bridge Paving Exception
Sta. 88+14.96 to
Sta. 91+46.92

End Construction
Sta. 126+00.00 "PR-I465"
RP 7+0.812



LOCATION MAP
MARION COUNTY



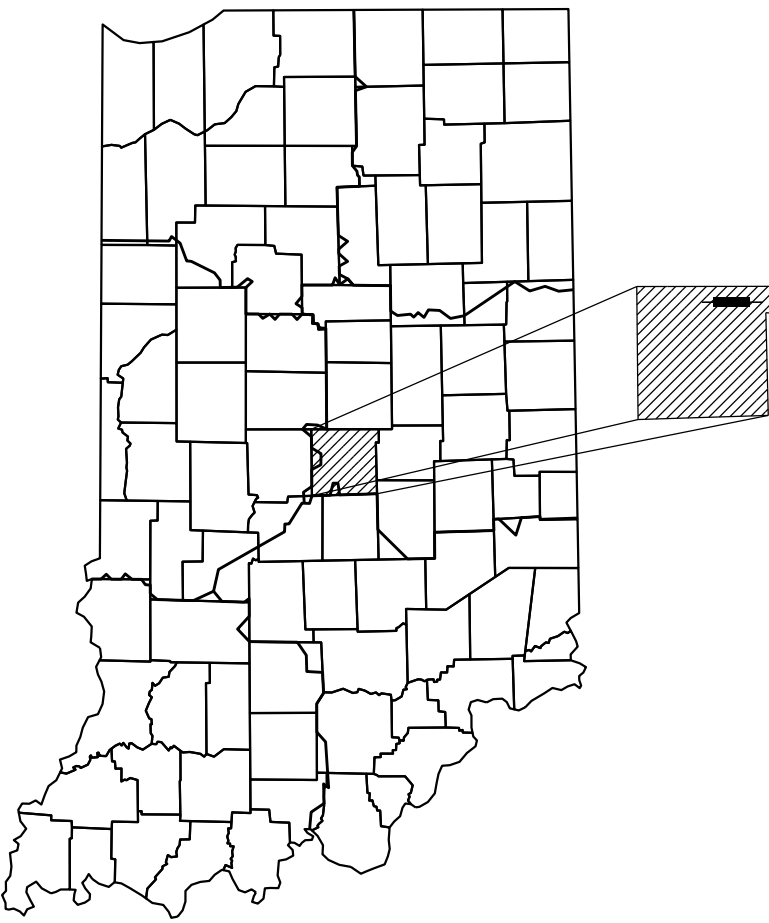
SCALE: 1" = 4000'

Begin Construction
Sta. 405+83.79 "ZZ_Combined"
RP 1+0.03

End Project
Sta. 470+92.85 "EBL_0902297"
RP 0+0.273

Bridge Paving Exception
Sta. 486+04.28 to
Sta. 488+48.27

TRAFFIC DATA	I-465
A.A.D.T. (2025)	130,411 V.P.D.
A.A.D.T. (2045)	134,550 V.P.D.
D.H.V. (2045)	10,222 V.P.D.
DIRECTIONAL DISTRIBUTION	100%
TRUCKS	15.22% A.A.D.T.
DESIGN DATA	
DESIGN SPEED	70 M.P.H.
POSTED SPEED	55 M.P.H.
PROJECT DESIGN CRITERIA	PARTIAL RECONSTRUCTION 3R
FUNCTIONAL CLASSIFICATION	INTERSTATE
RURAL/URBAN	URBAN
TERRAIN	LEVEL
ACCESS CONTROL	FULL



PROJECT LOCATION SHOWN BY

LATITUDE: 39°41'54"N LONGITUDE: 86°15'24"W

GROSS LENGTH: 2.24 MI.
NET LENGTH: 2.13 MI.
MAX. GRADE: 3.00 %

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS

PARSONS
101 W. Ohio St., Suite 2121
Indianapolis, IN 46204
Bus (317) 616-1000
Fax (317) 616-1033

PLANS
PREPARED BY: _____ PHONE NUMBER _____
CERTIFIED BY: _____ \$SIG DATE\$ _____
APPROVED FOR LETTING: _____ DATE _____
INDIANA DEPARTMENT OF TRANSPORTATION

DESIGNATION	1802075
SURVEY BOOK	SHEETS
ELECTRONIC	1 of 136
CONTRACT	PROJECT
R-41536	1802075

UTILITIES		
Indianapolis Power & Light Jim Duvall 1230 W. Morris Street Indianapolis, IN 46221 Phone: 317-261-8694 Email: jim.duvall@aes.com	AT&T Zach Goodbar 240 N. Meridian Street Indianapolis, IN 46204 Phone: 317-610-5427 Email: zg248f@att.com	INDOT Konstantin Veygman 8620 E. 21st Street Indianapolis, IN 46219 Phone: 317-899-8606 Email: kveygman@indot.in.gov
Citizens Water Scott Ritter 2150 Dr. Martin Luther King Jr. Street Indianapolis, IN 46218 Phone: 317-927-4434 Email: sritter@citizensenergygroup.com	AT&T Long Distance Luke Dillow 110 N. Mail Culver Indianapolis, IN 46551 Phone: 317-361-0594 Email: ldillow@jmceainc.com	Duke Caroline Pflum 1000 E. Main Street Plainfield, IN 46168 Phone: 317-966-7147 Email: caroline.pflum@duke-energy.com
Citizens Gas Rich Miller 2150 Dr. Martin Luther King Jr. Street Indianapolis, IN 46218 Phone: 317-927-4684 Email: rmiller@citizensenergygroup.com	Zayo Bandwidth Waylon Higgins 9209 Castlegate Drive Indianapolis, IN 46256 Phone: 765-341-1199 Email: waylon.higgins@zayo.com	
Citizens Sanitary Bob Masbaume 2150 Dr. Martin Luther King Jr. Street Indianapolis, IN 46218 Phone: 317-429-3961 Email: bmasbaum@citizensenergygroup.com	Centurylink National Long Haul Kendall Zetina 100 S Cincinnati Ave. Suite 1200 Tulsa, OK 74103 Phone: 918-574-0547 Email: kendall.zetina@centurylink.com	
Spectrum/Charter Jeff Farmer 3030 Roosevelt Avenue Indianapolis, IN 46218 Phone: 317-710-2628 Email: jeffry.farmer@charter.com	Fiber Tech/Crown Castle Craig Brown 800 Oliver Ave. Suite 1 Indianapolis, IN 46225 Phone: 317-819-8648 Email: craig.brown@crowncastle.com	
Comcast Scott Evans 1600 W Fountain Drive Bloomington, IN 47404 Phone: 317-752-6569 Email: sevans@telecomplacement.com	MCI Ron K0cienski 720 West Henry Street Indianapolis, IN 46225 Phone: 518-424-3950 Email: ronald.kocienski@verizonwireless.com	

REVISIONS		
SHEET NO.	DATE	REVISED

GENERAL NOTES	
	Clean and flush drain pipes of all existing storm to remain in place.
XX	All earth shoulders, median areas, cut and fill slopes shall be plain or mulch seeded except where sodding is specified.
	The final cross sections of the grading contract will be the original cross sections of the paving contract. However, partial or complete cross sections shall be taken if necessary to determine the actual excavation quantities.
	Paper relocation is to be cross sectioned by the engineer before construction.
	Existing asphalt located outside the construction limits, between Station _____ and Station _____ shall be removed as directed.
	The quantity of peat excavation shown on the plans has been estimated on the basis of theoretical cross sections by using treatment of existing fills, treatment by removal, or treatment by displacement, where each treatment applies.

XX Required General Notes

INDEX	
SHEET NO.	DRAWINGS INDEX
1	TITLE SHEET
2	INDEX SHEET
3 - 5	TYPICAL SECTIONS
6	REFERENCE POINT TIE UP SHEET
7 - 34	PLANS AND PROFILES
35 - 43	SUPERELEVATION DIAGRAMS
44 - 136	CROSS SECTIONS

PARSONS
101 W. Ohio St., Suite 2121
Indianapolis, IN 46204
Bus (317) 616-1000
Fax (317) 616-1033

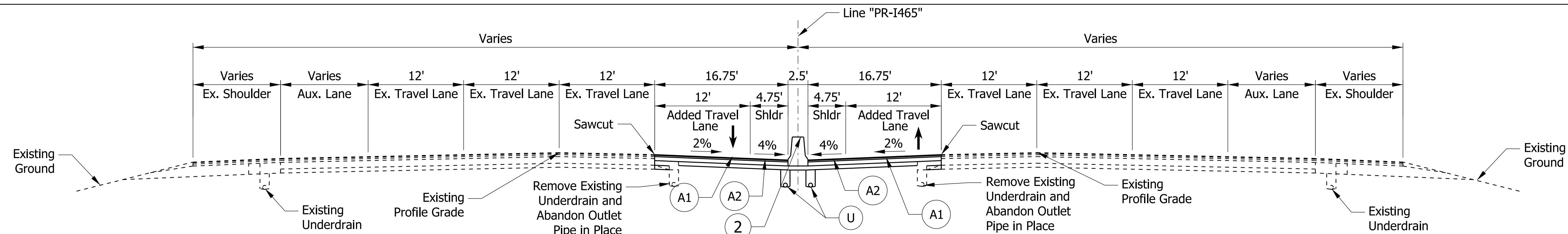
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	
DESIGNED: _____ CWB	DRAWN: _____ DH
CHECKED: _____ JTL	CHECKED: _____ CWB

INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX SHEET

HORIZONTAL SCALE		BRIDGE FILE	
N/A		N/A	
VERTICAL SCALE		DESIGNATION	
N/A		1802075	
SURVEY BOOK		SHEETS	
N/A		2	of 136
CONTRACT		PROJECT	
R-41536		1802075	

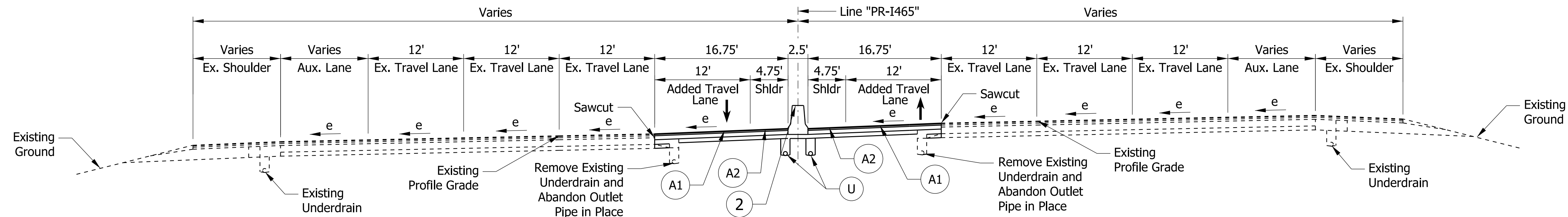
IP_PWP:dms31266\I-465_Reconfigure_Sht_Index.dgn



PROPOSED TANGENT TYPICAL SECTION PROJECT C

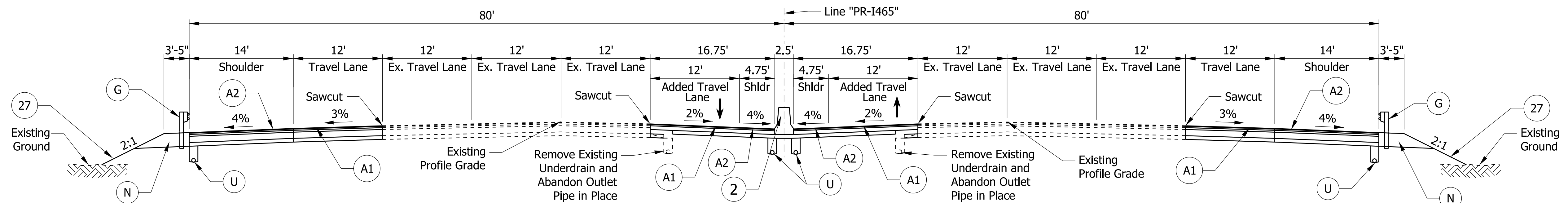
EB/SB: Sta. 68+64.28 to Sta. 66+58.35 Line "PR-I465"
 Sta. 88+14.86 to Sta. 105+80.02 Line "PR-I465"
 NB/WB: Sta. 59+82.70 to Sta. 64+26.53 Line "PR-I465"
 Sta. 88+14.86 to Sta. 107+12.69 Line "PR-I465"

Bridge Paving Exception Sta. 88+14.96 to Sta. 91+46.92



SUPERELEVATED TYPICAL SECTION PROJECT C

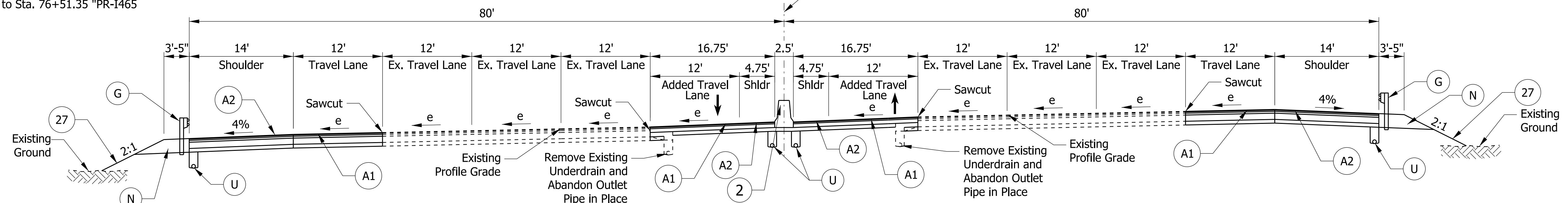
EB/SB: Sta. 66+58.35 to Sta. 88+14.86 Line "PR-I465"
 NB/WB: Sta. 64+26.53 to Sta. 88+14.86 Line "PR-I465"



PROPOSED TANGENT INSIDE/OUTSIDE WIDENING PROJECT C

EB/SB: Sta. 105+80.02 to Sta. 109+18.48 Line "PR-I465"
 NB/WB: Sta. 107+12.69 to Sta. 108+58.00 Line "PR-I465"

* Existing Profile Grade Transitions to 9'-3" away from Lane Line through Sta. 61+61.35 to Sta. 76+51.35 "PR-I465"



SUPERELEVATED INSIDE/OUTSIDE WIDENING PROJECT C

EB/SB: Sta. 109+18.48 to Sta. 126+00.00 Line "PR-I465"
 NB/WB: Sta. 108+58.00 to Sta. 126+00.00 Line "PR-I465"

PARSONS
 101 W. Ohio St., Suite 2121
 Indianapolis, IN 46204
 Bus (317) 616-1000
 Fax (317) 616-1033

- | | | |
|----------|--|----------------------|
| (A1) TBD | (G) Guardrail, MGS W-Beam, 6'-3" Spacing | (27) Seed Mixture, U |
| (A2) TBD | (N) Compacted Aggregate, No. 53 | |
| (A3) TBD | (U) Underdrain | |
| (A4) TBD | (2) Concrete Median Barrier, 45" | |

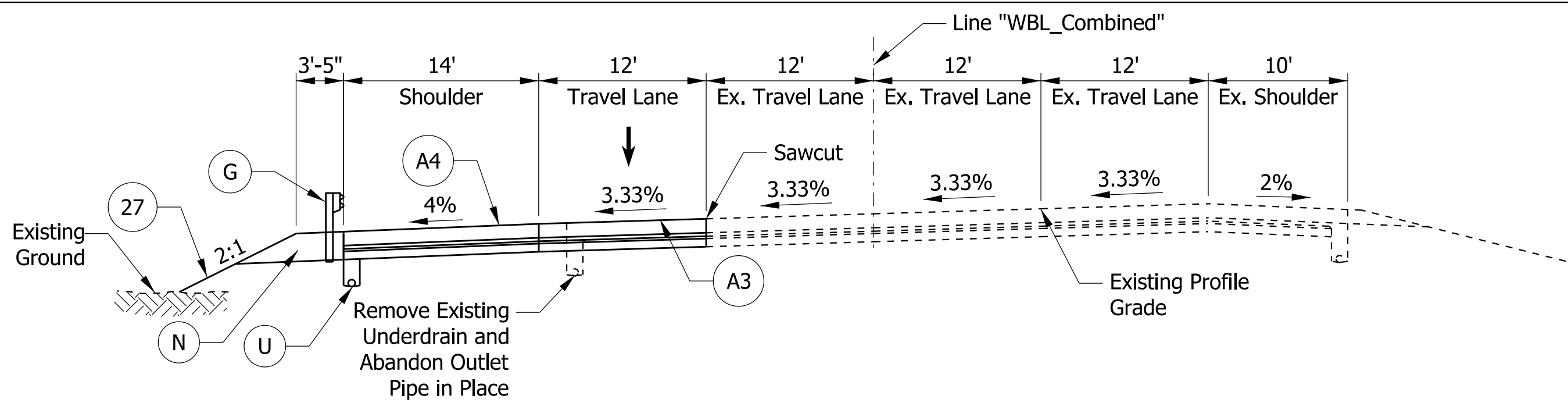
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JAC	DRAWN: DH	
CHECKED: CWB	CHECKED: CWB	

INDIANA
 DEPARTMENT OF TRANSPORTATION

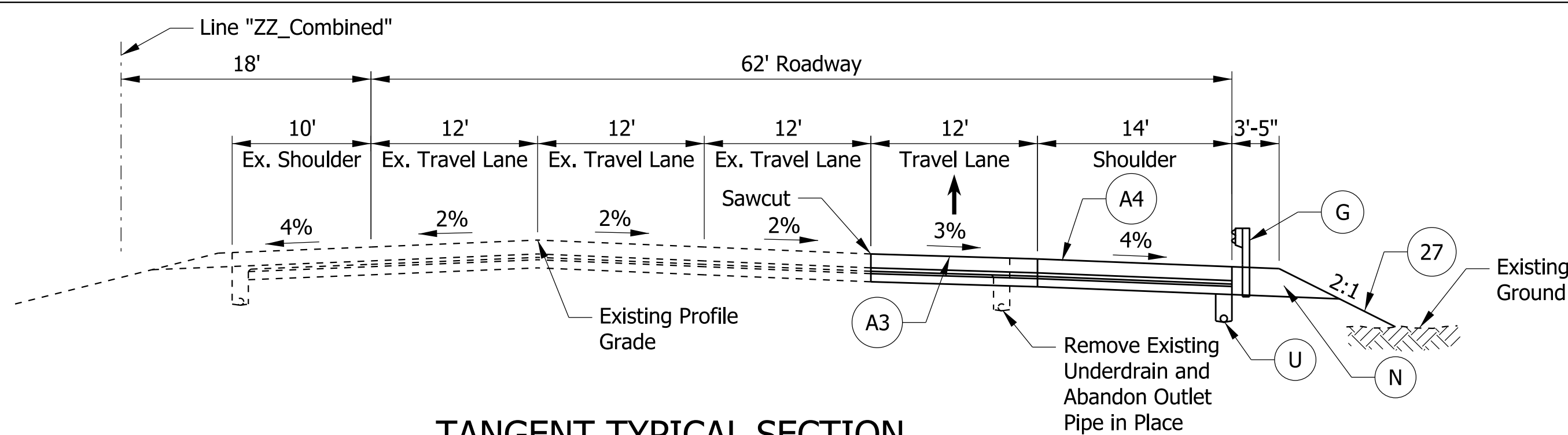
TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE	
1/8" = 1'		
VERTICAL SCALE	DESIGNATION	
N/A	1802107	
SURVEY BOOK	SHEETS	
N/A	3	of 136
CONTRACT	PROJECT	
R-41536	1802075	

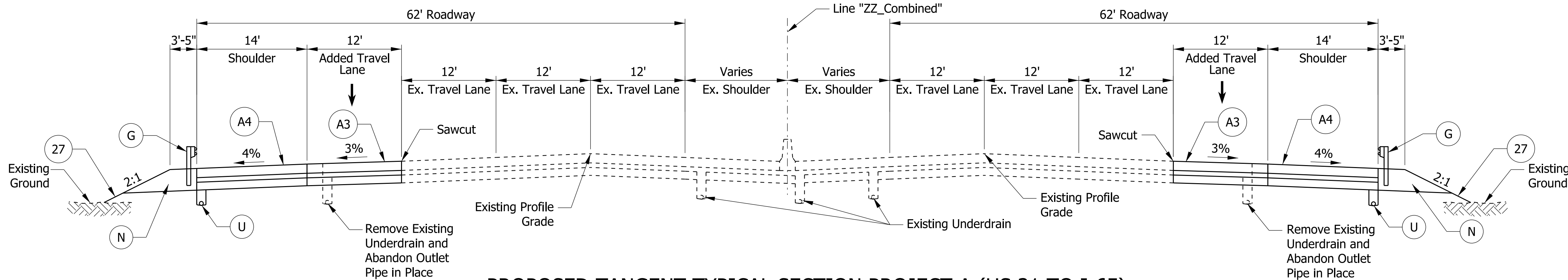
IP_PWP:dms31266\I465_Reconfiguration_Typ_01.dgn



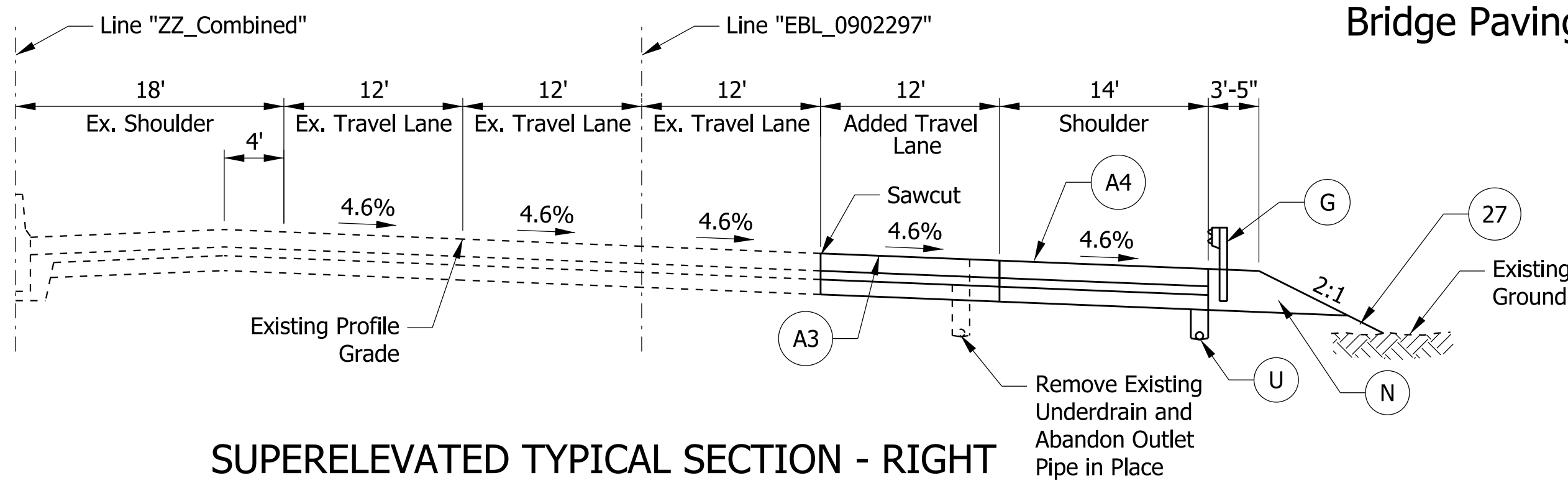
SUPERELEVATED TYPICAL SECTION - LEFT
Sta. 438+25.00 to Sta. 456+62.98 Line "WBL_Combined"



TANGENT TYPICAL SECTION
Sta. 446+44.39 to Sta. 456+46.72 Line "ZZ_Combined"

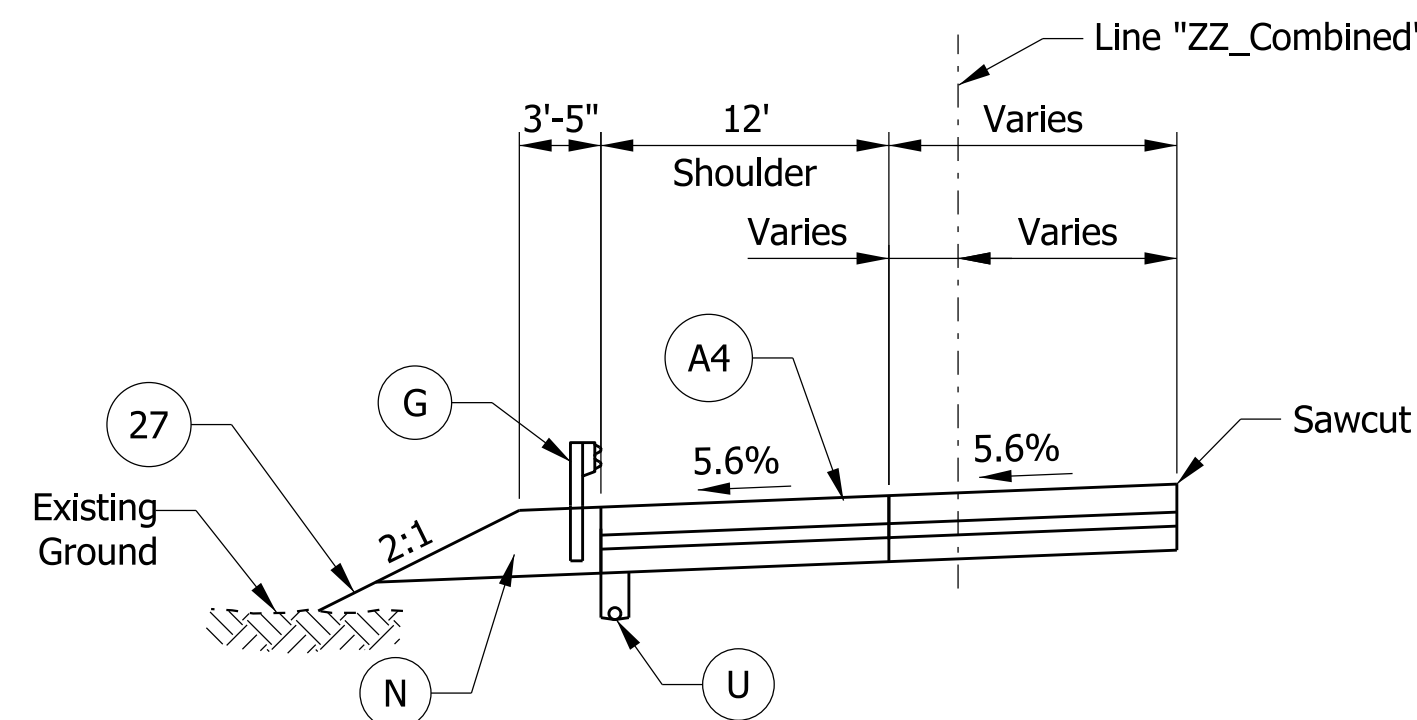


PROPOSED TANGENT TYPICAL SECTION PROJECT A (US 31 TO I-65)
EB: Sta. 456+46.72 to Sta. 463+31.51 Line "ZZ_Combined"
WB: Sta. 456+46.72 to Sta. 461+48.28 Line "ZZ_Combined"



SUPERELEVATED TYPICAL SECTION - RIGHT
Sta. 463+31.51 to Sta. 470+92.85 Line "EBL_0902297"

Bridge Paving Exception Sta. 486+04.28 to Sta. 488+48.27



AUXILIARY LANE FOR "SWL"
Sta. 433+45.00 to Sta. 441+78.17 Line "ZZ_Combined"

PARSONS
101 W. Ohio St., Suite 2121
Indianapolis, IN 46204
Bus (317) 616-1000
Fax (317) 616-1033

A1 TBD
A2 TBD
A3 TBD
A4 TBD

G Guardrail, MGS W-Beam, 6'-3" Spacing
N Compacted Aggregate, No. 53
U Underdrain
2 Concrete Median Barrier, 45"

27 Seed Mixture, U

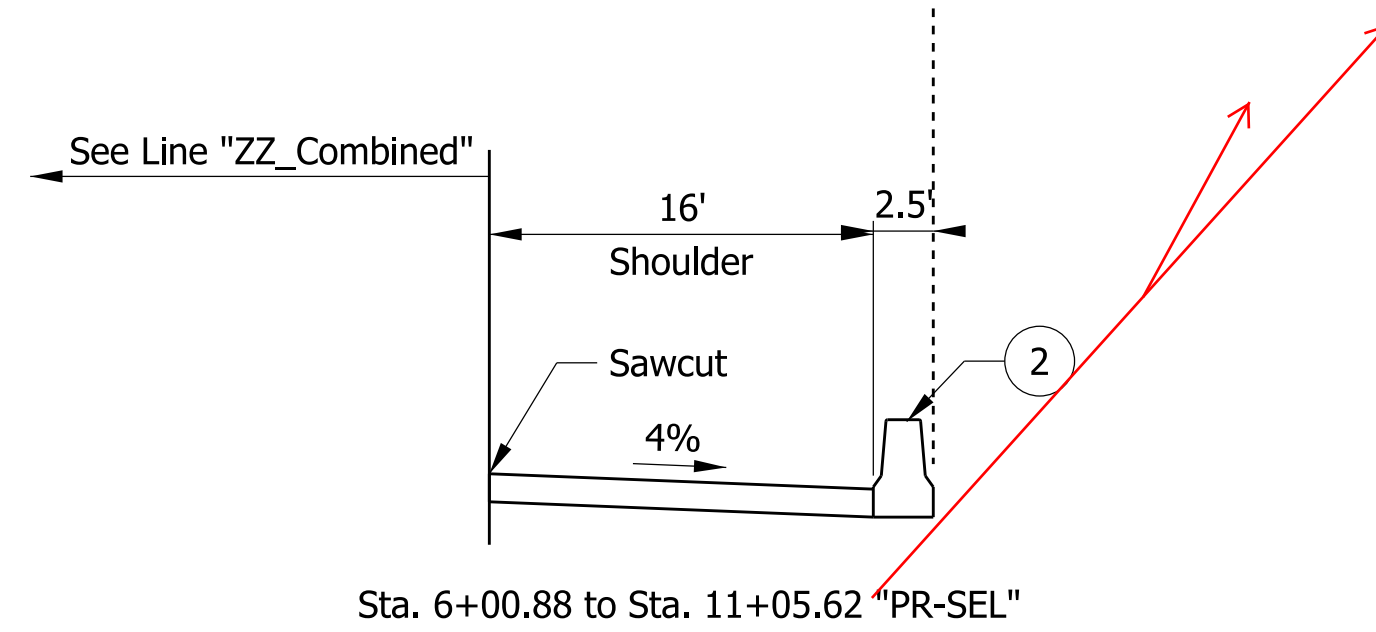
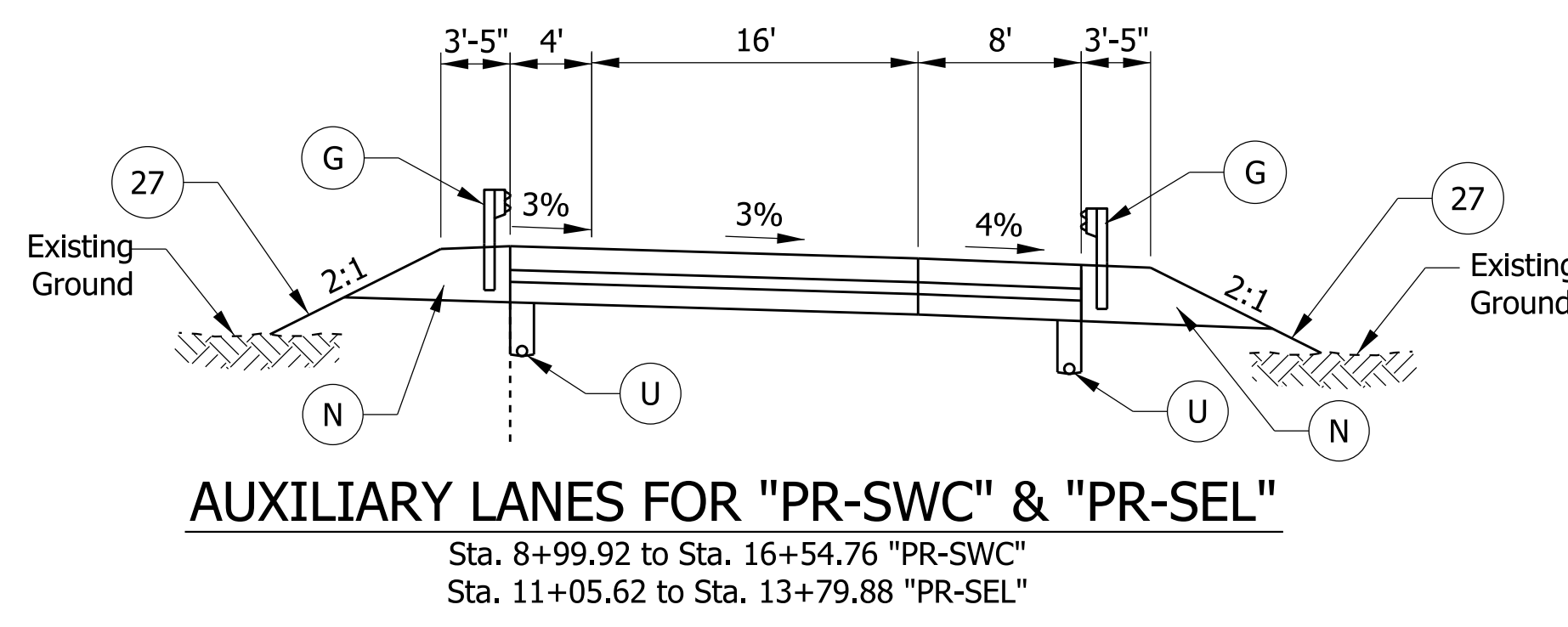
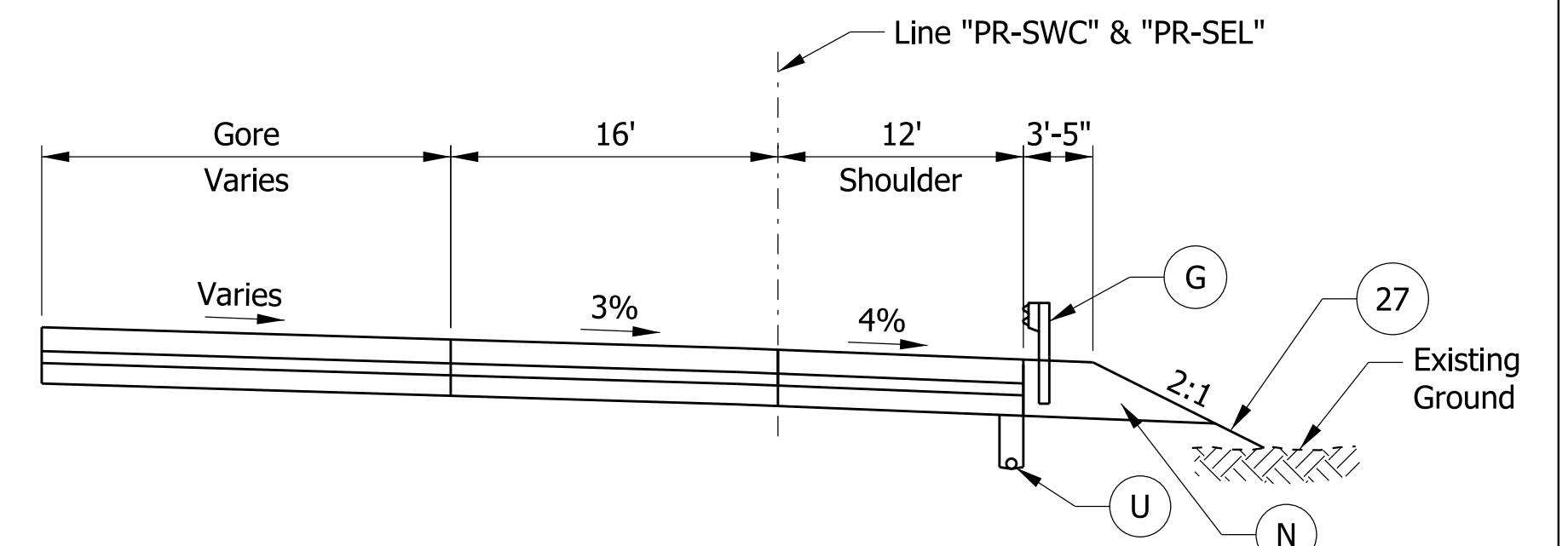
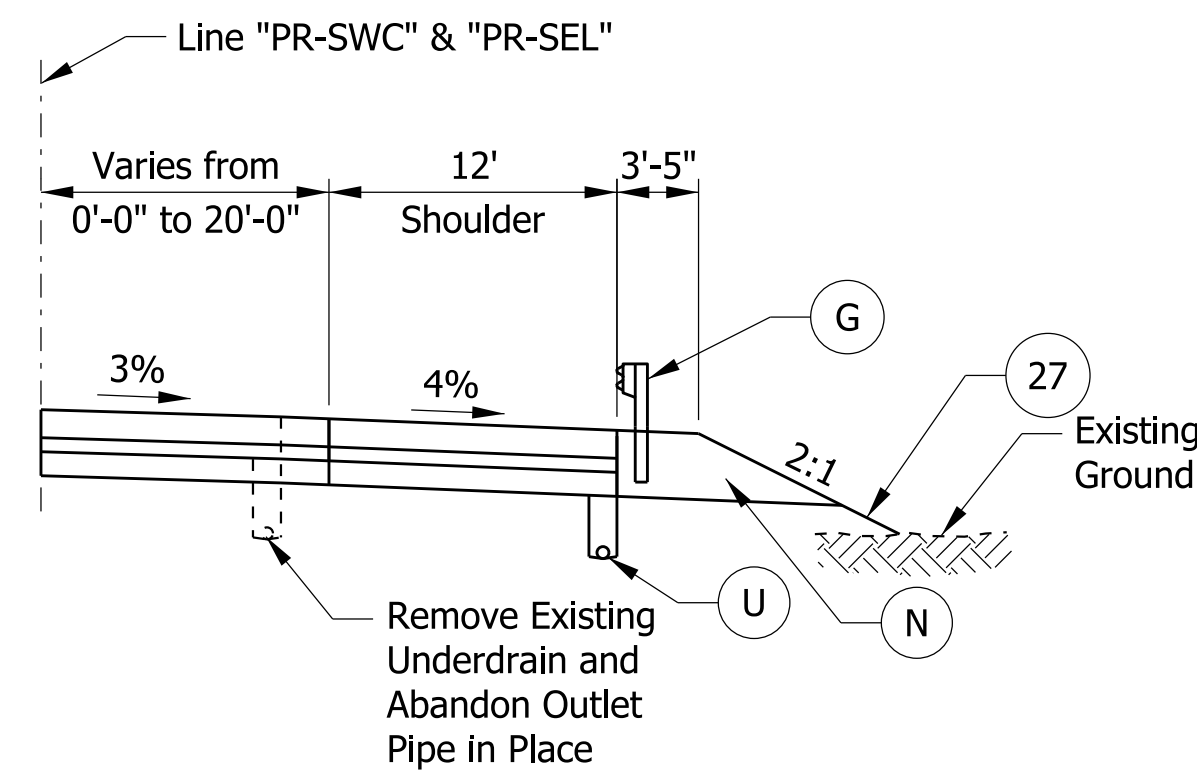
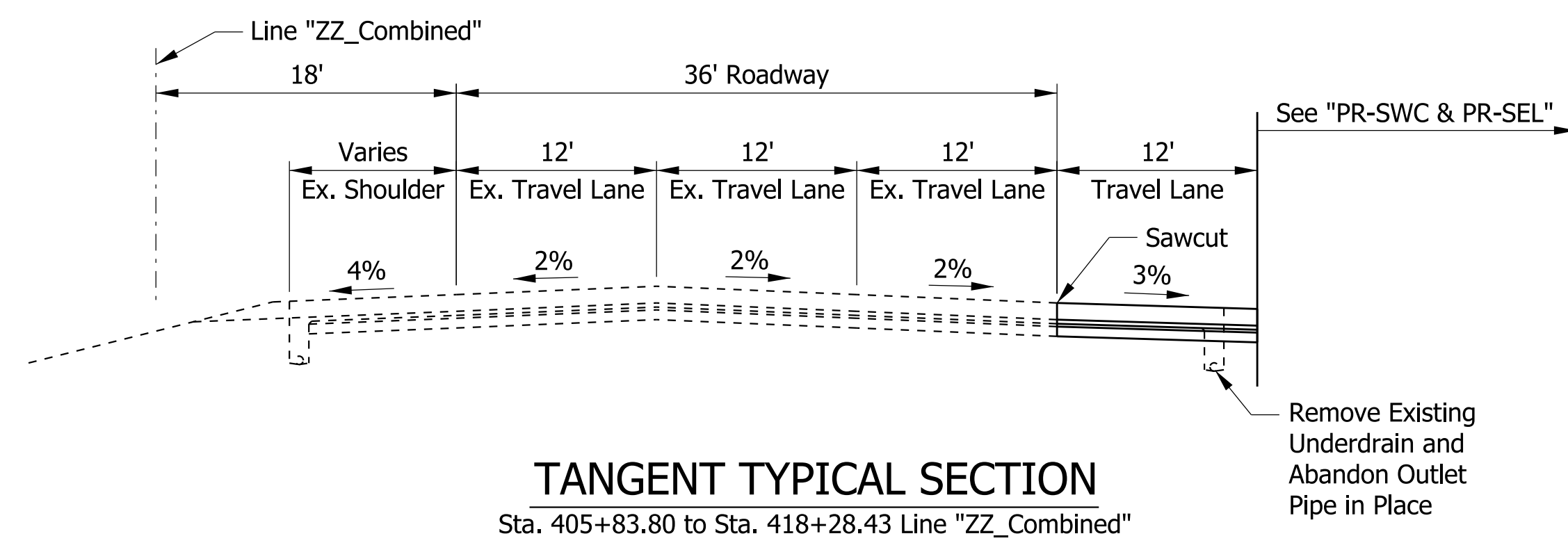
RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER _____ DATE _____
DESIGNED: JAC DRAWN: DH
CHECKED: CWB CHECKED: CWB

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE	
1/8" = 1'		
VERTICAL SCALE	DESIGNATION	
N/A	1802105	
SURVEY BOOK	SHEETS	
N/A	4	of 136
CONTRACT	PROJECT	
R-41536	1802075	

IP_PWP:dms31266\1465_Reconfiguration_Typ_02.dgn



PARSONS
101 W. Ohio St., Suite 2121
Indianapolis, IN 46204
Bus (317) 616-1000
Fax (317) 616-1033

(A1) TBD
(A2) TBD
(A3) TBD
(A4) TBD

(G) Guardrail, MGS W-Beam, 6'-3" Spacing
(N) Compacted Aggregate, No. 53
(U) Underdrain
(2) Concrete Median Barrier, 45"

(27) Seed Mixture, U

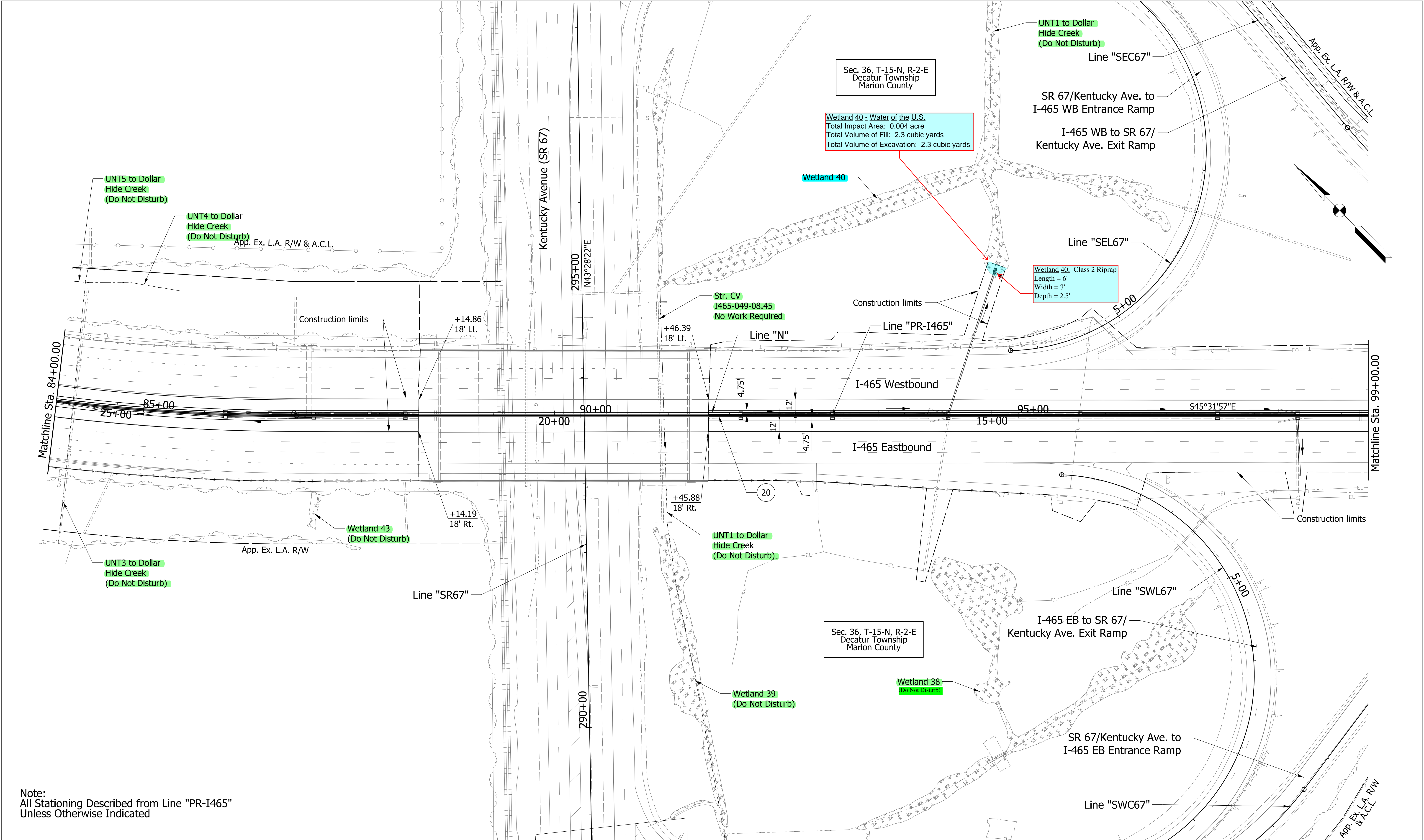
RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER _____ DATE _____
DESIGNED: JAC DRAWN: DH
CHECKED: CWB CHECKED: CWB

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE	
1/8" = 1'		
VERTICAL SCALE	DESIGNATION	
N/A	1802106	
SURVEY BOOK	SHEETS	
N/A	5	of 136
CONTRACT	PROJECT	
R-41536	1802075	

IP_PWP:dms31266\1465_Reconfiguration_Typ_03.dgn



Note:
All Stationing Described from Line "PR-I465"
Unless Otherwise Indicated

PARSONS

101 W. Ohio St., Suite 2121
Indianapolis, IN 46204
Bus (317) 616-1000
Fax (317) 616-1033

Stream/Wetland Not Disturbed

Impacted Wetland

Impacted Stream (Existing Channel)

Impacted Stream (Proposed Channel)

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: JAC		DRAWN: DH			
CHECKED: CWB		CHECKED: CWB			

INDIANA
DEPARTMENT OF TRANSPORTATION

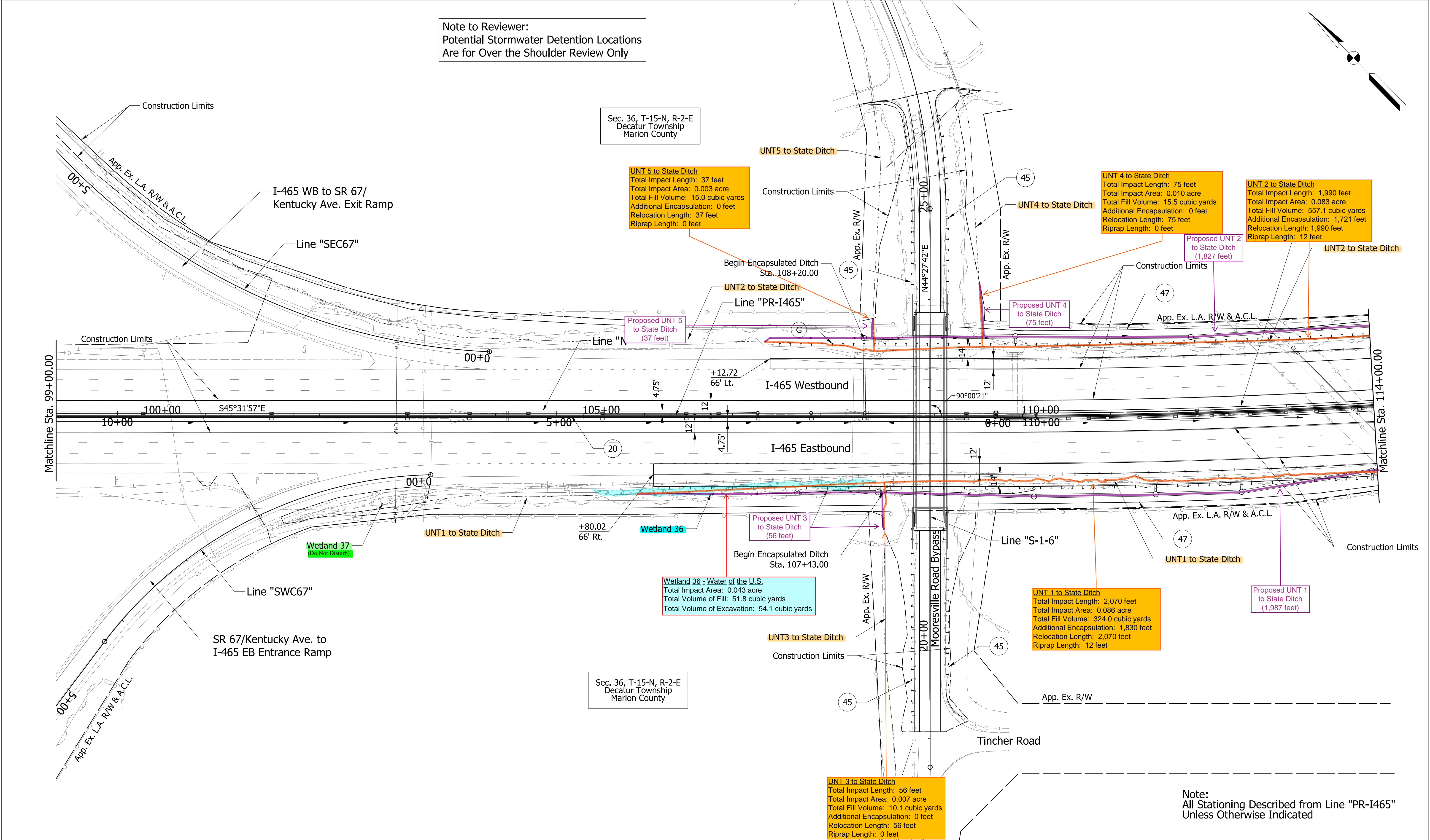
PLAN SHEET
LINE "PR-I465"
STA. 84+00 TO STA. 99+00

HORIZONTAL SCALE		BRIDGE FILE	
1" = 50'		N/A	
VERTICAL SCALE		DESIGNATION	
N/A		1802107	
SURVEY BOOK		SHEETS	
N/A		5 of 150	
CONTRACT		PROJECT	
R-41536		1802075	

Des. 1802075

Attachment 1: Project Plans

Page 10 of 190



Note to Reviewer:
Potential Stormwater Detention Locations
Are for Over the Shoulder Review Only

Sec. 36, T-15-N, R-2-E
Decatur Township
Marion County

UNT 5 to State Ditch
Total Impact Length: 37 feet
Total Impact Area: 0.003 acre
Total Fill Volume: 15.0 cubic yards
Additional Encapsulation: 0 feet
Relocation Length: 37 feet
Riprap Length: 0 feet

UNT 4 to State Ditch
Total Impact Length: 75 feet
Total Impact Area: 0.010 acre
Total Fill Volume: 15.5 cubic yards
Additional Encapsulation: 0 feet
Relocation Length: 75 feet
Riprap Length: 0 feet

UNT 2 to State Ditch
Total Impact Length: 1,990 feet
Total Impact Area: 0.083 acre
Total Fill Volume: 557.1 cubic yards
Additional Encapsulation: 1,721 feet
Relocation Length: 1,990 feet
Riprap Length: 12 feet

Proposed UNT 2
to State Ditch
(1,827 feet)

Proposed UNT 4
to State Ditch
(75 feet)

Proposed UNT 5
to State Ditch
(37 feet)

Proposed UNT 3
to State Ditch
(56 feet)

Proposed UNT 1
to State Ditch
(1,987 feet)

Wetland 36 - Water of the U.S.
Total Impact Area: 0.043 acre
Total Volume of Fill: 51.8 cubic yards
Total Volume of Excavation: 54.1 cubic yards

UNT 1 to State Ditch
Total Impact Length: 2,070 feet
Total Impact Area: 0.086 acre
Total Fill Volume: 324.0 cubic yards
Additional Encapsulation: 1,830 feet
Relocation Length: 2,070 feet
Riprap Length: 12 feet

UNT 3 to State Ditch
Total Impact Length: 56 feet
Total Impact Area: 0.007 acre
Total Fill Volume: 10.1 cubic yards
Additional Encapsulation: 0 feet
Relocation Length: 56 feet
Riprap Length: 0 feet

Note:
All Stationing Described from Line "PR-I465"
Unless Otherwise Indicated

PARSONS
101 W. Ohio St., Suite 2121
Indianapolis, IN 46204
Bus (317) 616-1000
Fax (317) 616-1033

- Stream/Wetland Not Disturbed
- Impacted Wetland
- Impacted Stream (Existing Channel)
- Impacted Stream (Proposed Channel)

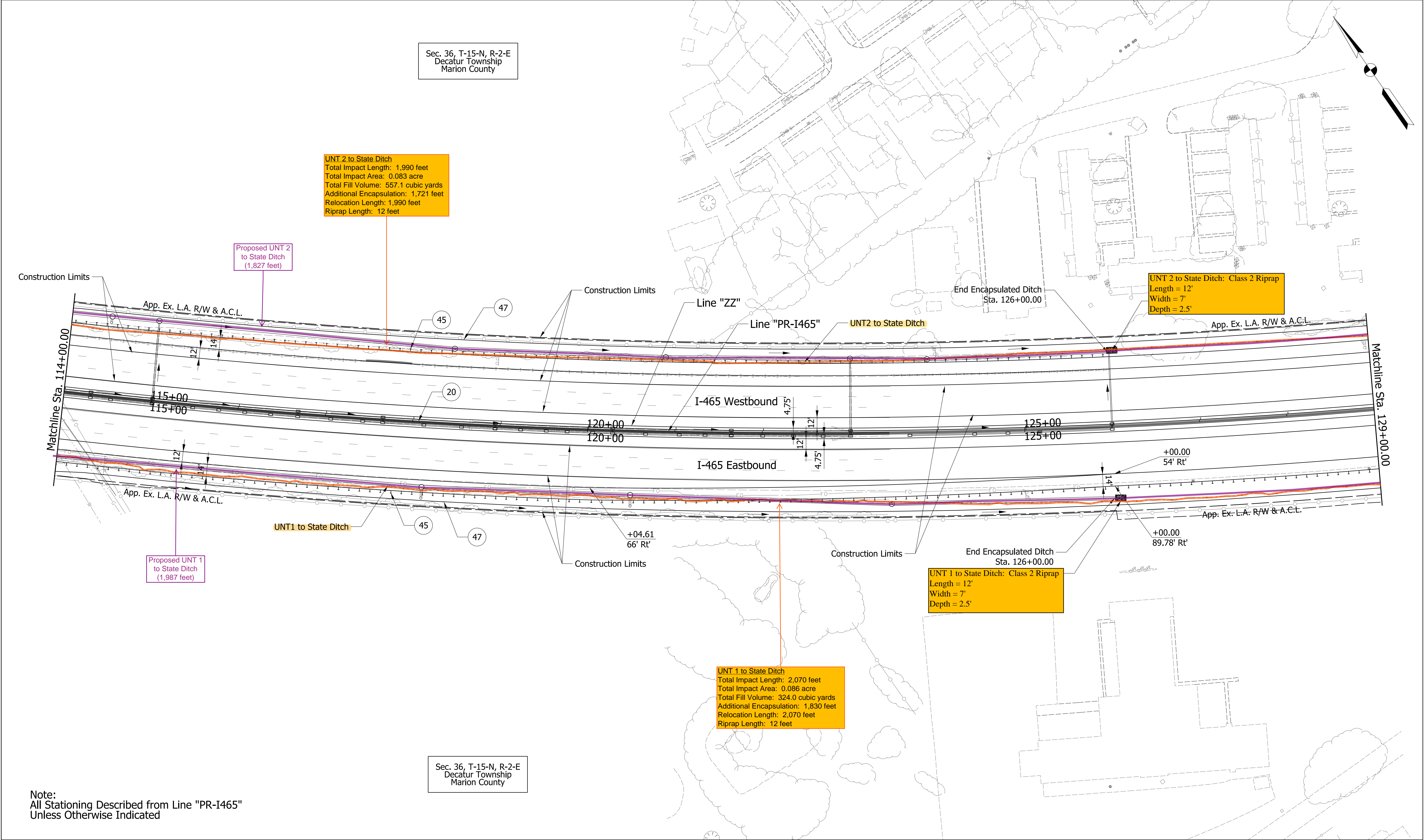
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JAC	DRAWN: DH	
CHECKED: CWB	CHECKED: CWB	

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
LINE "PR-I465"
STA. 99+00 TO STA. 114+00

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1802107
SURVEY BOOK N/A	SHEETS 7 of 150
CONTRACT R-41536	PROJECT 1802075

IP_PWP:dms37750\I-465_Reconfigure_Plan_04.dgn



Note:
All Stationing Described from Line "PR-I465"
Unless Otherwise Indicated

PARSONS
101 W. Ohio St., Suite 2121
Indianapolis, IN 46204
Bus (317) 616-1000
Fax (317) 616-1033

Stream/Wetland Not Disturbed

Impacted Wetland

Impacted Stream (Existing Channel)

Impacted Stream (Proposed Channel)

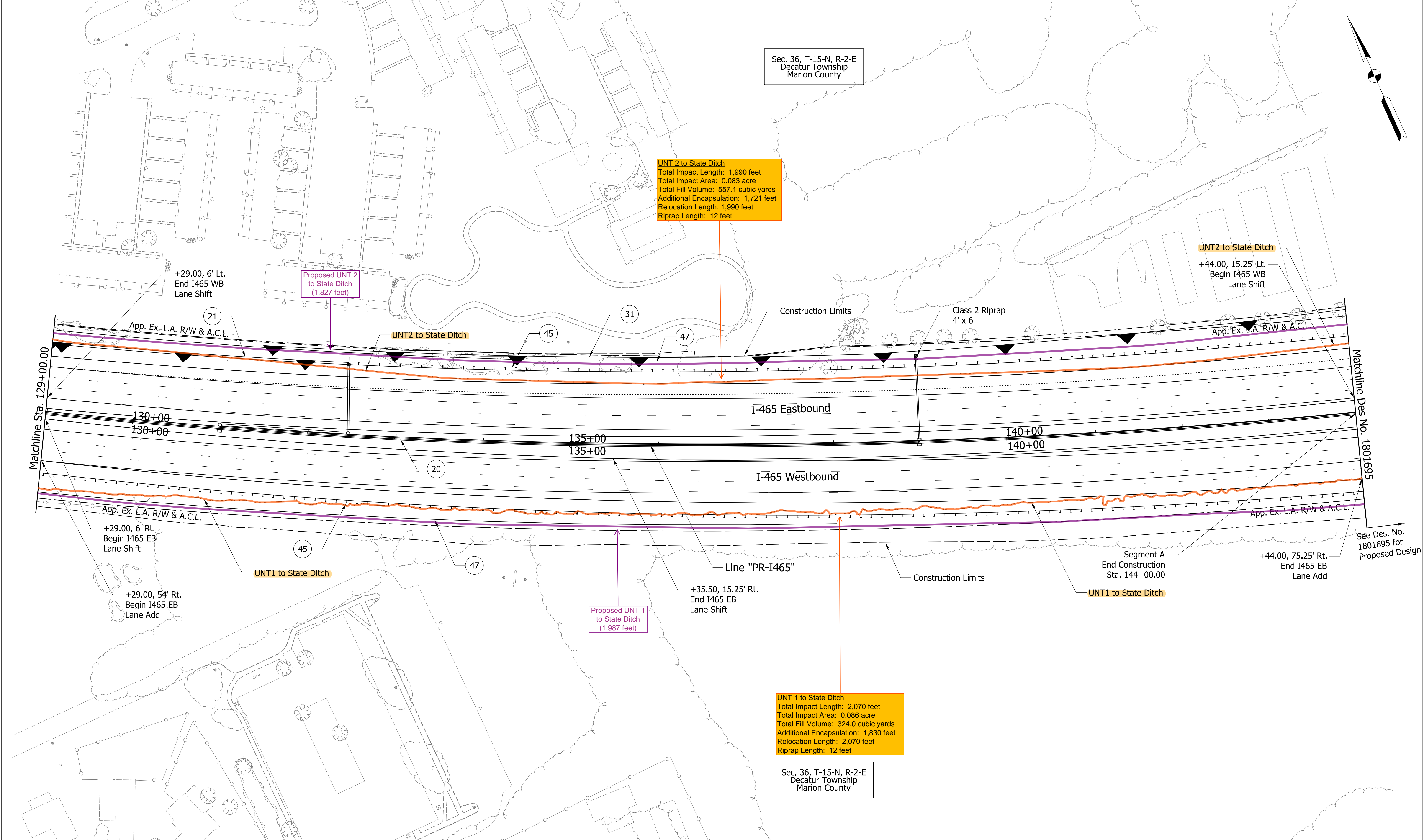
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JAC	DRAWN: DH	
CHECKED: CWB	CHECKED: CWB	

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
LINE "PR-I465"
STA. 114+00 TO STA. 129+00

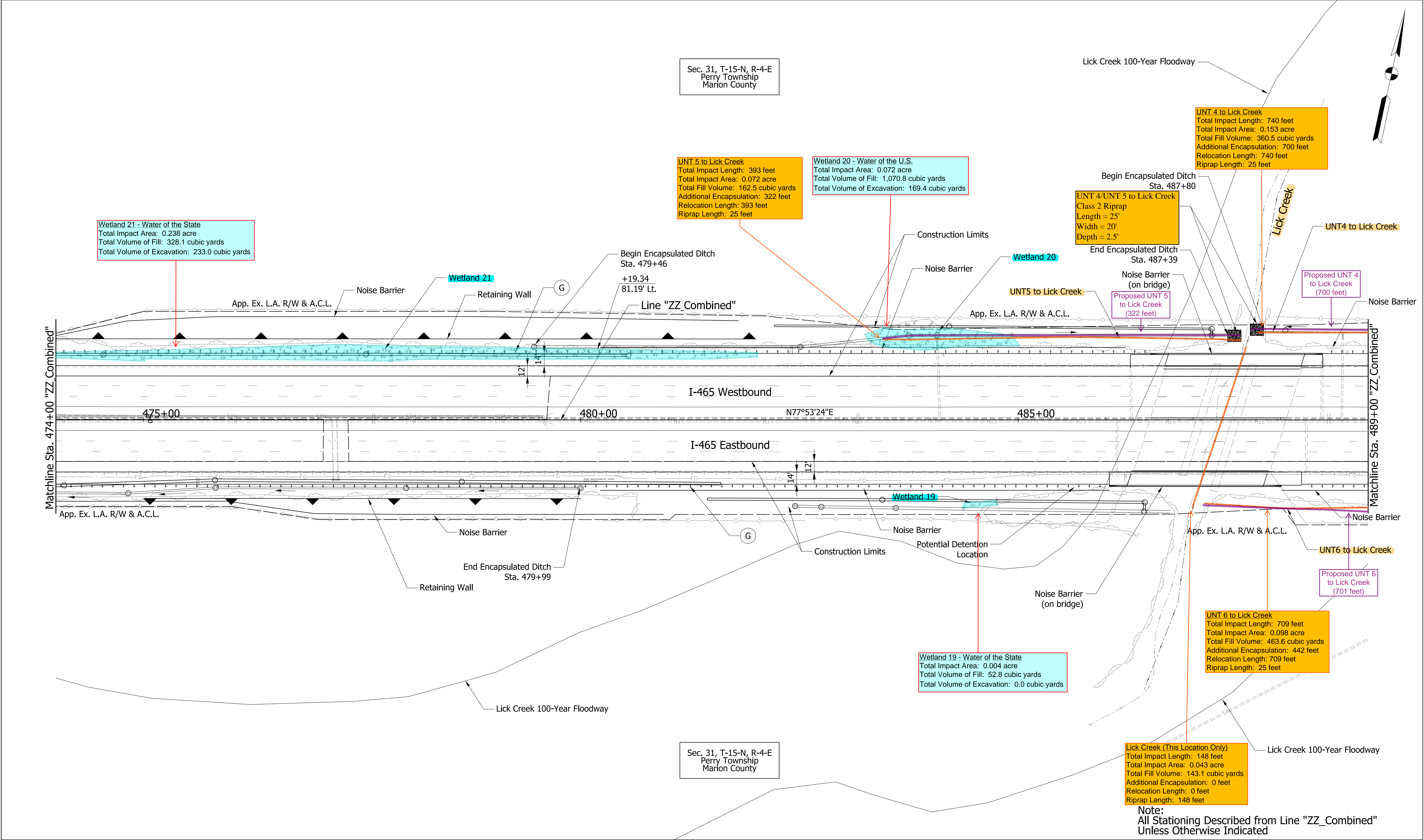
HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION 1802107
SURVEY BOOK N/A	SHEETS 9 of 150
CONTRACT R-41536	PROJECT 1802075

IP_PWP:dms37750\I-465_Reconfigure_Plan_05.dgn



PARSONS 101 W. Ohio St., Suite 2121 Indianapolis, IN 46204 Bus (317) 616-1000 Fax (317) 616-1033	<div><div>Stream/Wetland Not Disturbed</div><div>Impacted Wetland</div><div>Impacted Stream (Existing Channel)</div><div>Impacted Stream (Proposed Channel)</div></div>	RECOMMENDED FOR APPROVAL _____		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 50'	BRIDGE FILE N/A	
		DESIGN ENGINEER _____ DATE _____				VERTICAL SCALE N/A	DESIGNATION 1802107	
		DESIGNED: JAC	DRAWN: DH	PLAN SHEET LINE "PR-I465"		SURVEY BOOK N/A	11	of 150 SHEETS
		CHECKED: CWB	CHECKED: CWB	STA. 129+00 TO STA. 144+00		CONTRACT R-41536	PROJECT 1802075	

IP_PWP:dms37750\I-465_Reconfigure_Plan_05AA.dgn



Note:
All Stationing Described from Line "ZZ_Combined"
Unless Otherwise Indicated

PARSONS
101 W. Ohio St., Suite 2121
Indianapolis, IN 46204
Bus (317) 616-1000
Fax (317) 616-1033

- 2 Concrete Median Barrier, 45"
- G Guardrail, MGS, W-Beam, 6'-3" Spacing
- MH Manhole with Open Grate

- Stream/Wetland Not Disturbed
- Impacted Wetland
- Impacted Stream (Existing Channel)
- Impacted Stream (Proposed Channel)

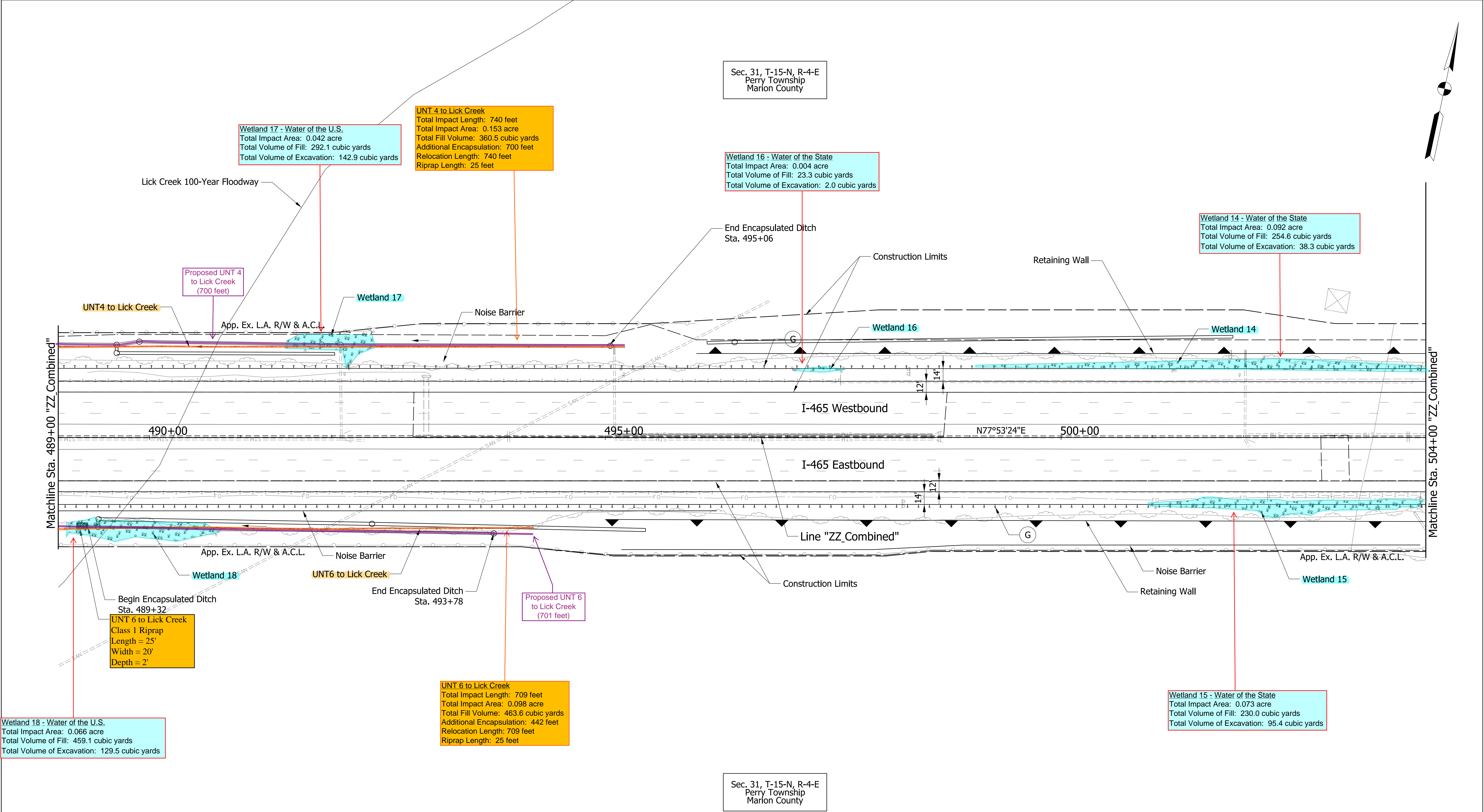
RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: JAC		DRAWN: DH			
CHECKED: CWB		CHECKED: CWB			

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
LINE "ZZ_COMBINED"
STA. 474+00 TO STA. 489+00

HORIZONTAL SCALE		BRIDGE FILE	
1" = 50'		N/A	
VERTICAL SCALE		DESIGNATION	
N/A		1802105	
SURVEY BOOK		SHEETS	
N/A		23 of 150	
CONTRACT		PROJECT	
R-41536		1802075	

IP_PWP:dms37750\I-465_Reconfigure_Plan_09.dgn



Note:
All Stationing Described from Line "ZZ_Combined"
Unless Otherwise Indicated

PARSONS
101 W. Ohio St., Suite 2121
Indianapolis, IN 46204
Bus (317) 616-1000
Fax (317) 616-1033

2

Concrete Median Barrier, 45"

G

Guardrail, MGS, W-Beam, 6'-3" Spacing

MH

Manhole with Open Grate

Stream/Wetland Not Disturbed

Impacted Wetland

Impacted Stream (Existing Channel)

Impacted Stream (Proposed Channel)

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER

DATE

DESIGNED: JAC

DRAWN: DH

CHECKED: CWB

CHECKED: CWB

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN SHEET
LINE "ZZ_COMBINED"
STA. 489+00 TO STA. 504+00

HORIZONTAL SCALE
1" = 50'

VERTICAL SCALE
N/A

SURVEY BOOK
N/A

CONTRACT
R-41536

BRIDGE FILE
N/A

DESIGNATION
1802105

SHEETS
25 of 150

PROJECT
1802075

IP_PWP:dms37750\I-465_Reconfigure_Plan_10.dgn



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, LOUISVILLE DISTRICT
INDIANAPOLIS REGULATORY OFFICE
8902 OTIS AVENUE, SUITE S106B
INDIANAPOLIS, IN 46216

June 16, 2020

Regulatory Division
North Branch
ID No. LRL-2019-945-dds

Ms. Crystal Rehder
Indiana Department of Transportation
100 North Senate Avenue, Room N642
Indianapolis, IN 46204

Dear Ms. Rehder:

This is in regard to your application dated March 20, 2020, concerning the proposed widening of I465 in Marion County, Indiana (Des. No. 1802075). More specifically, the project is located at Latitude 39.698372° and Longitude -86.138490°. The proposed project would involve widening I465 from six lanes to eight lanes by replacing existing structures, relocating and encapsulating sections of streams, discharging riprap for scour protection, and discharging fill into wetlands for the widened road. The project would involve discharging fill into a total of 0.802 acre of emergent wetland and 0.022 acre of forested wetland. In addition, Lick Creek, McFarland Creek, and unnamed tributaries to Lick Creek and McFarland Creek would be impacted. We have reviewed the submitted data relative to Section 404 of the Clean Water Act (CWA).

The Louisville, Detroit, and Chicago Districts issued Regional General Permit (RGP) No. 1 pursuant to Section 10 of the Rivers and Harbors Act of 1899 and Section 404 CWA on December 15, 2019, for certain activities having minimal impact in Indiana. We have verified that the proposed work with the proposed mitigation is authorized under the RGP. Compliance with the enclosed RGP General Conditions, the Section 401 WQC issued by IDEM dated June 1, 2020, and the following Special Conditions is required:

1. The permittee shall provide receipt of payment from the Indiana Department of Natural Resources (IDNR) Stream and Wetland Mitigation Program for the purchase of 1,876 linear feet of stream credits (consisting of 1,850 linear feet of ephemeral stream credits and 26 linear feet of perennial stream credits) and 0.08 acre of forested wetland credits. These credits must be purchased prior to the discharge of fill into "waters of the United States", as authorized by this permit. Please note that the cost per credit is subject to change and may increase. Inquiries regarding credit purchase may be made directly to IDNR by email at: inswmp-inquiry@dnr.in.gov, or in writing at: Indiana Department of Natural Resources, Division of Land Acquisition, 402 W. Washington Street, W255A, Indianapolis, Indiana, 46204.

2. The permittee shall provide receipt of payment from the Buck Creek Wetland Mitigation Bank for the purchase of 0.79 acre of wetland credits. These credits must be purchased prior to the discharge of fill into “waters of the United States”, as authorized by this permit. Please note that the cost per credit is subject to change and may increase. Inquiries regarding credit purchase may be made directly to the bank sponsor by calling Mr. Linden Graber at (618) 281-2232, by email at: Linden@mitigationholdings.com, or in writing at: Mitigation Investment Holdings, 248 Southwoods Center, Columbia, IL 62236.

This authorization only applies to the resources listed in Table 1. The remaining proposed impacts are NOT authorized under RGP No. 1 and are currently being processed as a Standard Permit.

Upon completion of the work authorized by this RGP, the enclosed Compliance Certification form must be completed and returned to this office. This authorization is valid until December 15, 2024.

If you have any questions concerning this matter, please contact Ms. Deborah Duda Snyder by writing to: U.S. Army Corps of Engineers, Indianapolis Regulatory Office, 8902 Otis Avenue, Suite S106B, Indianapolis, IN 46216 or by calling 317-543-9424. Any correspondence on this matter should reference our assigned Identification Number LRL-2019-945-dds.

Sincerely,

Laban C. Lindley
Team Leader
Indianapolis Regulatory Office

Enclosures

Copy furnished: IDEM (Turner)

Compliance Certification

Permit Number: LRL-2019-945-djd

Name of Permittee: Indiana Department of Transportation

Date of Issuance: June 17, 2020

Upon completion of the activity authorized by this permit and any mitigation required by this permit, sign this certification and return it to the following address:

USACE - Louisville District
Indianapolis Regulatory Office
8902 Otis Avenue, Suite S106B
Indianapolis, IN 46216

Please note that your permitted activity is subject to a compliance inspection by an U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature for Permittee
(Crystal Rehder)

Date

Table 1.

Aquatic Resource	Resource type	Impact	Permanent Loss	
Crossing 1				
McFarland Creek	Perennial: natural with culvert	255 lf	22 lf	Extend 200 lf structure by 22 lf, discharge riprap within structure and along 33 lf at inlet and outlet
UNT 1 McFarland Creek	Ephemeral: roadside ditch	209 lf	0 lf	Install pipe liner into 182 lf of existing culvert, discharge riprap along 27 lf at outlet
UNT 4 McFarland Creek	Ephemeral: roadside ditch with riparian corridor	188 lf	188 lf	Relocate 188 lf of stream into 185 lf of stream
Wetland 9	Forested	0.022 ac	0.022 ac	Road widening
Wetland 10	Emergent	0.055 ac	0.055 ac	Road widening
Wetland 11	Emergent	0.319 ac	0.319 ac	Road widening
Wetland 14	Emergent	0.092 ac	0.092 ac	Road widening
Wetland 15	Emergent	0.073 ac	0.073 ac	Road widening
Total		652 lf, 0.561 ac	200 lf, 0.561 ac	
Crossing 2				
Being processed as Standard Permit				
Crossing 3				
UNT 7 Lick Creek	Intermittent: channelized ditch	199 lf	0 lf	Install pipe liner in 175 lf existing culvert, discharge riprap along 24 lf
UNT 8 Lick Creek	Ephemeral: roadside ditch with riparian corridor	760 lf	760 lf	Relocate 760 lf into 748 lf including 265 lf culvert, discharge 18 lf of riprap at outlet
Wetland 21	Emergent	0.238 ac	0.238 ac	Road widening
Wetland 22	Emergent	0.001 ac	0.001 ac	Road widening
Total		959 lf, 0.239 ac	760 lf, 0.239 ac	
Crossing 4				
Lick Creek	Perennial: channelized	56 lf	0 lf	Discharge riprap at three separate outlets

UNT 11 Lick Creek	Ephemeral: roadside ditch with riparian corridor	534 lf	534 lf	Relocate 535 lf into 535 lf including 309 lf of culvert, discharge 12 lf of riprap at outlet
UNT 11 Lick Creek	Ephemeral: culvert	162 lf	0 lf	Install pipe liner in 137 lf of culvert, discharge riprap along 25 lf at outlet
UNT 12 Lick Creek	Ephemeral: natural	60 lf	60 lf	Fill 60 lf for road widening
UNT 14 Lick Creek	Ephemeral: culvert	202 lf	0 lf	Install pipe liner in 177 lf of culvert, discharge riprap along 25 lf at outlet
Wetland 23	Emergent	0.007 ac	0.007 ac	Road widening
Wetland 24	Emergent	0.004 ac	0.004 ac	Road widening
Wetland 26	Emergent	<0.001 ac	<0.001 ac	Road widening
Total		1,015 lf, 0.011 ac	595 lf, 0.011 ac	
Crossing 5				
Being Processed as a Standard Permit				
Crossing 6				
Wetland 44	Emergent	0.005 ac	0.005 ac	Road widening
Wetland 47	Emergent	0.007 ac	0.007 ac	Road widening
Wetland 48	Emergent	0.001 ac	0.001 ac	Road widening
Total		0.013 ac	0.013 ac	